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# MOTOR TRANSPORT TRAFFIC STATISTICS

PROVINCE OF QUEBEC

Year ended March 31, 1957 (1956/57)



*Published by Authority of*

The Honourable Gordon Churchill, Minister of Trade and Commerce

**DOMINION BUREAU OF STATISTICS**

Public Finance and Transportation Division

Transportation and Public Utilities Section





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## INTRODUCTION

This report presents the results of the first annual survey of motor transport traffic conducted in the Province of Quebec at three month intervals during the period April 1, 1956 to March 31, 1957. This survey has been made possible through the excellent co-operation received from the trucking

industry and particularly from the officials of the Government of Quebec, in allowing the Dominion Bureau of Statistics access to motor vehicle registration records from which samples of trucks were selected each quarter.

### General Description of the Sample

An overall sample of approximately 10 per cent of all trucks registered in Quebec was selected for the year of this survey. To allow for seasonal variations in motor transport traffic and to ensure that the sample vehicles represented current registrations in force, this annual survey was conducted in four quarterly segments with approximately 2½ per cent of total registrations sampled each quarter. Vehicles selected were coded so that a particular vehicle would not be chosen more than once during each licence year. Each quarterly segment of the survey ran for a seven day period, Sunday through Saturday.

All trucks registered in the province are represented except those not considered to be engaged in transportation services such as tow trucks, hearses, ambulances, snowmobiles, farm tractors, cranes, bulldozers, cat tracks, diggers, graders and other road building equipment, military and other government owned vehicles, taxis and passenger automobiles and those vehicles not required to obtain a Quebec licence under Section 10 of the Quebec Motor Vehicles Act. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

While an annual sample of ten per cent of all trucks registered in the province was considered sufficient to obtain reliable statistics, greater accuracy was achieved by stratifying the sample by weight groups. This stratification was made on the basis of tare (empty) weight of the vehicles rather than gross vehicle weight as in most other provinces, because the Province of Quebec licenses motor vehicles on a tare weight basis. By stratifying the vehicles by tare weight groups, it was determined that almost 98,000 or approximately 69 per cent of the provincial total have a tare weight of 3,300 lbs. or less, whereas only about 11,000 trucks are in the "8,500 lbs. and over" class. More reliable results are obtained by concentrating higher sampling ratios among the weight groups containing the largest vehicles which engage in the most diversified type of operation, and by ensuring that each weight group contains a sufficient number of vehicles for expansion purposes. The proportion selected by weight group varied, therefore, from 6 per cent in the lowest weight group to about 24 per cent in the heaviest with the result that an overall 10 per cent ratio was made to represent approximately 20 per cent of the capacity of all vehicles registered.

Vehicles in the sample were also stratified by function or type of operation into the four categories: for hire, private intercity, private urban and private farm. For hire trucks are those operated for compensation or gain anywhere in the province according to licence; private intercity are those which are owned and operated on intercity routes by business, industry and individuals to transport their own raw materials, finished goods and merchandise; private urban vehicles are those which are operated predominantly within urban or metropolitan areas and private farm trucks are those operated by farmers primarily to transport farm produce, farm supplies or for farm service purposes. This stratification was made on the basis of the licensing system in Quebec, with a view to maintaining comparability with other provinces wherever possible.

In Quebec, trucks operated for compensation as contract or common carriers in intercity service or within a specified locality and a radius of 5 miles from the boundaries of that locality, are required to obtain an "L" licence. All privately owned vehicles engaged in intercity and/or urban operations are issued with an "F" licence. Vehicles owned and operated by farmers and used in connection with their own farm operations are classified as farm vehicles and issued with an "N" licence. It was therefore possible to select the samples for these three classes of vehicles directly from provincial numerical files of each of these licence categories.

From the above, it can be seen that the "L" licence category corresponds to the for hire or common carrier group and the "N" licence category is equivalent to the private farm class, as defined for the purposes of this report. Those vehicles with "F" licences were classified as "private urban" and "private intercity" on the basis of the predominant type of operation performed, as shown by replies to the survey questionnaire.

All vehicles in the sample were classified by gross vehicle weight groups to provide comparability with other annual provincial reports. Since Quebec licenses vehicles on a tare weight basis and as there is no direct means of converting tare weight to gross vehicle weight, the following method was used. For each truck, the gross vehicle weight was estimated from the recorded tare weight, and either the estimated carrying capacity or the weight of the heaviest load carried. The gross vehicle weight of each tractor-trailer combination was

estimated from the tare weight of the tractor, the estimated tare weight of the trailer and the weight of the heaviest load carried. It is emphasized that this

method provides only approximately equivalent gross vehicle weight groups; and therefore, exact provincial comparability cannot be assured.

### Expansion of the Survey Results

Since each quarterly segment of the annual sample was selected at random, the final distribution by gross vehicle weight and by function was used to provide population estimates as at the time of the sample selection. The results were then expanded to represent all trucks registered in the province, as well as the operations performed during the three month period. Generally, this was achieved by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. Expansion on the basis of the relative size of the sample and population varied with each gross vehicle weight

group and with the breakdown of the gross sample into various categories of response. Since there are 13 weeks in a three month period, time expansion was achieved by multiplying by 13 in all cases.

The resultant expanded data for each of the four quarters were then combined to obtain provincial estimates for the twelve month period. Yearly operating averages such as average yearly mileage were calculated from the average number of vehicles registered during the twelve month period. All other operating ratios were obtained from the twelve month aggregates.

### REVIEW OF SURVEY RESULTS

Excluding vehicles which do not perform transportation services, the average number of trucks registered in Quebec during the twelve month period ending March 31, 1957 was 142,179. Of this number, 11,929 or 8 per cent were common or for hire carriers; 32,649 or 23 per cent were private intercity trucks owned and operated by business to transport their own goods; 66,245 or 47 per cent were trucks used in urban operations; and, 31,356 or 22 per cent were farm trucks used mainly in the growing, servicing and marketing activities of the farmer.

Blanks appear in a number of places in the following tables where no vehicles of certain weight classifications were selected in any of the four samples. It does not necessarily follow that there were no vehicles belonging to these classifications in operation in the province. In addition, those cells marked with an asterisk in Appendix I (Number of Questionnaires Returned Completed) contain a relatively small sample of trucks and hence statistics appearing in such classes throughout the report are not considered reliable.

**Section I.** The total number of miles travelled by all trucks registered in Quebec, intraprovincially, interprovincially and extraprovincially (traffic performed entirely outside the province) during the twelve month period ending March 31, 1957 amounted to 1,357 million, of which 250 million miles or 18 per cent were accumulated by for hire trucks and 459 million or 34 per cent by private intercity trucks. On the average, trucks registered in the province travelled 9,500 miles during the year and each ton of goods was carried an average distance of 30.1 miles. For hire trucks averaged 20,900 miles during the period as compared with an average of 14,100 miles for private intercity vehicles and carried goods 79 per cent of the time as against 52 per cent for private intercity trucks. For hire and private intercity trucks carried each ton of goods an average distance of 71 and 27 miles respectively.

The amount of fuel consumed by Quebec registered trucks totalled 133 million imperial gallons of gasoline and 9 million gallons of diesel oil. As there were few diesel trucks included in the survey, the estimate of the diesel oil consumption is most likely not very reliable and should, therefore, be used with caution. Miles per gallon of gasoline varied from 6.7 for common carriers to 14.1 for farm trucks. The average for all gasoline trucks amounted to 9.8 miles per gallon and for diesel trucks 6.4 miles per gallon.

The total volume of goods transported by all trucks registered in the province amounted to 106 million short tons. Farm trucks carried 2.7 million tons or 3 per cent of the total; private urban trucks transported 42.2 million tons or 40 per cent; private intercity trucks 37.5 million tons or 35 per cent and for hire carriers transported 23.9 million tons or 22 per cent of the total volume. Ton miles performed aggregated 3,202 million, an average of 22,500 ton miles per vehicle.

Total capacity ton miles for all motor vehicles amounted to 6,785 million, an average of 47,700 capacity ton miles per vehicle. The percentage of capacity utilized was 47.2 for all trucks and 61.4 per cent for the for hire vehicles. Gross ton miles aggregated 7,655 million, an average of 53,800 gross ton miles per vehicle.

The total amount of revenue received by common or for hire carriers for all types of service amounted to 136 million dollars or 11,400 dollars per vehicle. Revenue per ton mile was 8.0 cents whereas revenue per total mile amounted to 54.5 cents.

**Section II.** This series presents the total amount of traffic performed by Quebec registered trucks within the boundaries of the province. In addition to the intraprovincial traffic, it includes that portion of interprovincial and international traffic which was performed on Quebec streets and highways.



The total number of miles operated by Quebec registered vehicles within the province amounted to 1,269 million compared with the grand total of 1,357 million miles operated both inside and outside the province. The yearly mileage per truck averaged 8,900 miles as against 9,500.

The total volume of goods carried in Quebec amounted to 105.6 million tons. Ton miles totalled 2,353 million compared with 3,202 million inside and outside the province, while average ton miles per vehicle was 16,600 as opposed to 22,500. The average weight carried per vehicle amounted to 3.3 tons compared with 4.1 tons and each ton of goods was carried an average distance of 22.3 miles within the province as against 30.1 miles.

Total revenue received by common carriers for the transportation of goods on Quebec streets and highways amounted to 92.8 million dollars, an average of 7,800 dollars per vehicle and 9.9 cents per ton mile.

**Section III.** The total volume of goods transported by Quebec registered trucks engaged in interprovincial and international service is estimated at 4,268,000 tons, of which 2,640,000 tons or almost 62 per cent was transported by for hire or common carriers. Of a total of 2,653,000 tons carried out of Quebec, 2,170,000 tons or 82 per cent were destined to Ontario and 405,000 tons or 15 per cent were transported to the United States. The majority of goods brought into Quebec originated in the same areas.

Table 14 shows interprovincial and international traffic by gross vehicle weight groups and by class of carrier. Of total traffic amounting to 982 million ton miles, almost 82 per cent was performed

by for hire carriers, with nearly 77 per cent of the total traffic performed by trucks with a gross vehicle weight of over 45,000 pounds. The average load carried by for hire trucks was 13 tons compared to 10 tons by private vehicles, while the average distance per trip was 294 miles versus 94 miles.

Commodities carried by vehicles engaged in interprovincial and international traffic are shown in table 15. The total volume of goods transported by for hire carriers was 2,640,000 tons, with each ton transported an average distance of 307 miles. Total revenue received amounted to 48.5 million dollars at an average rate of 6.0 cents per ton mile. Manufactures and miscellaneous items amounting to 1,498,000 tons were the chief commodities transported by for hire carriers, for which revenue of 25.3 million dollars was received.

Private vehicles engaged in interprovincial and international service transported 1,628,000 tons of goods, of which 549,000 tons or 34 per cent were forest products and 482,000 tons or 30 per cent were manufactures and miscellaneous items.

**Appendix:** The appendix to this report provides an analysis of the sampling response as well as the estimated average Quebec truck population for the year. Over the twelve month period ending March 31, 1957, survey questionnaires were sent to the owners or operators of 17,264 motor vehicles. Of this total 8,540 questionnaires were returned completed and 3,842 vehicles were reported not used during the survey week. In addition, 2,698 questionnaires were returned with insufficient information and were therefore unusable. Non response to the survey totalled 2,184 or 13 per cent.

**Section I. Motor Truck Traffic Performed by Quebec Registered Trucks Inside and Outside the Province**  
**April 1, 1956 - March 31, 1957**

**TABLE 1. Total Mileage Travelled**

Type of operation <sup>1</sup>	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
For hire ..... Private: Intercity ..... Urban ..... Farm ..... <b>Total</b> .....	Total mileage travelled						
	'000						
	1,363	24,562	21,276	19,174	40,629	142,867	249,871
	84,039	133,233	34,641	33,754	66,209	107,195	459,071
	122,727	241,164	46,418	29,869	30,330	32,184	502,692
	72,520	64,116	7,105	1,767	82	68	145,658
	280,649	463,075	109,440	84,564	137,250	282,314	1,357,292
	Average yearly mileage per truck						
	5,400	11,800	10,600	12,800	17,100	38,400	20,900
	12,300	11,900	11,200	14,000	14,800	23,200	14,100
	7,300	7,700	6,400	7,500	7,800	10,700	7,600
	4,700	4,600	4,100	4,900	1,700	11,300	4,600
	7,100	7,900	7,800	10,300	12,700	24,800	9,500
	Average journey (Average distance each ton of goods was carried)						
	20.3	19.0	21.1	26.5	28.4	99.1	71.0
	28.9	28.1	22.0	33.0	21.1	29.9	27.2
	15.0	13.6	10.2	10.8	10.2	9.9	10.6
	13.7	13.9	14.3	24.8	5.6	21.0	14.6
	17.7	16.8	15.0	19.6	18.7	42.1	30.1
	Percentage of total mileage travelled empty						
46.6	24.3	24.7	25.2	30.4	17.3	21.5	
59.5	53.0	37.0	34.5	39.9	43.8	47.6	
53.1	37.1	26.5	29.2	29.6	35.7	39.0	
71.0	70.5	54.9	45.5	47.3	52.3	69.7	
59.6	45.6	31.3	30.7	34.8	29.5	42.0	

1. For hire trucks - operated for compensation or gain anywhere in the province according to licence. Private - Intercity trucks - owned and operated on intercity routes by business, industry and individuals to transport their own raw materials, finished goods and merchandise. Private - Urban trucks - operated primarily within urban areas (including some for hire vehicles.) Private - Farm trucks - owned and operated by farmers primarily to transport farm produce, farm supplies or for service purposes.

**Section I. Motor Truck Traffic Performed by Quebec Registered Trucks Inside and Outside the Province**  
**April 1, 1956 - March 31, 1957**

**TABLE 2. Total Fuel Consumption**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
For hire .....	Total gallons of gasoline consumed						
	99	2,112	2,307	'000 2,548	5,678	18,025	30,769
	Private:						
	Intercity .....	5,490	10,232	3,605	3,944	8,707	14,900
	Urban .....	8,402	18,945	4,837	3,762	4,421	4,987
	Farm .....	4,790	4,637	673	219	14	8
	Total .....	18,781	35,926	11,422	10,473	18,820	37,920
	Total gallons of diesel oil consumed						
	For hire .....	—	—	—	'000 —	109	6,895
	Private:						
Intercity .....	—	—	—	—	—	1,164	
Urban .....	—	—	—	—	—	618	
Farm .....	—	—	—	—	—	—	
Total .....	—	—	—	—	109	8,677	



**Section I. Motor Truck Traffic Performed by Quebec Registered Trucks Inside and Outside the Province**  
**April 1, 1956 – March 31, 1957**

**TABLE 2. Total Fuel Consumption – Concluded**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Miles per gallon of gasoline							
For hire .....	13.7	11.6	9.2	7.5	7.0	5.5	6.7
Private:							
Intercity .....	15.3	13.0	9.6	8.6	7.6	6.7	9.6
Urban .....	14.6	12.7	9.6	7.9	6.9	5.8	11.0
Farm .....	15.1	13.8	10.6	8.1	6.0	8.7	14.1
<b>Total .....</b>	<b>14.9</b>	<b>12.9</b>	<b>9.6</b>	<b>8.1</b>	<b>7.2</b>	<b>6.0</b>	<b>9.8</b>
Miles per gallon of diesel oil							
For hire .....	—	—	—	—	9.3	6.3	6.4
Private:							
Intercity .....	—	—	—	—	—	6.8	6.8
Urban .....	—	—	—	—	—	5.5	5.5
Farm .....	—	—	—	—	—	—	—
<b>Total .....</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>9.3</b>	<b>6.3</b>	<b>6.4</b>

**Section I. Motor Truck Traffic Performed by Quebec Registered Trucks Inside and Outside the Province**  
**April 1, 1956 – March 31, 1957**

**TABLE 3. Total Goods Carried and Ton Miles Performed**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total tons of goods carried							
'000							
For hire .....	12	574	1,712	1,941	4,953	14,684	23,876
Private:							
Intercity .....	409	1,506	2,217	2,253	9,817	21,272	37,474
Urban .....	683	4,666	5,415	5,093	8,395	17,938	42,190
Farm .....	681	1,126	692	189	38	1	2,727
<b>Total .....</b>	<b>1,785</b>	<b>7,872</b>	<b>10,036</b>	<b>9,476</b>	<b>23,203</b>	<b>53,895</b>	<b>106,267</b>
Average weight carried (Average weight of goods carried per one-way trip) <sup>1</sup>							
For hire .....	.3	.6	2.3	3.6	5.0	12.3	8.6
Private:							
Intercity .....	.3	.7	2.2	3.4	5.2	10.5	4.2
Urban .....	.2	.4	1.6	2.6	4.0	8.6	1.5
Farm .....	.4	.8	3.1	4.9	4.9	.1	.9
<b>Total .....</b>	<b>.3</b>	<b>.5</b>	<b>2.0</b>	<b>3.2</b>	<b>4.9</b>	<b>11.4</b>	<b>4.1</b>
Total ton miles performed							
'000							
For hire .....	247	10,903	36,204	51,473	140,904	1,454,955	1,694,686
Private:							
Intercity .....	11,829	42,335	48,830	74,232	207,273	635,283	1,019,782
Urban .....	10,245	63,324	55,293	55,212	85,625	178,226	447,925
Farm .....	9,357	15,630	9,898	4,693	212	3	39,793
<b>Total .....</b>	<b>31,678</b>	<b>132,192</b>	<b>150,225</b>	<b>185,610</b>	<b>434,014</b>	<b>2,268,467</b>	<b>3,202,186</b>
Average ton miles per truck							
For hire .....	1,000	5,200	18,100	34,300	59,500	391,300	142,100
Private:							
Intercity .....	1,700	3,800	15,800	30,800	46,300	137,200	31,200
Urban .....	600	2,000	7,700	13,900	22,000	59,300	6,800
Farm .....	600	1,100	5,700	13,000	4,400	500	1,300
<b>Total .....</b>	<b>800</b>	<b>2,300</b>	<b>10,700</b>	<b>22,500</b>	<b>40,200</b>	<b>199,700</b>	<b>22,500</b>

1. Excludes vehicles making trips empty.

**Section I. Motor Truck Traffic Performed by Quebec Registered Trucks Inside and Outside the Province  
April 1, 1956 – March 31, 1957**

**TABLE 4. Total Truck Capacity**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total capacity ton miles <sup>1</sup>							
	'000						
For hire .....	1,134	35,445	71,782	103,008	312,499	2,235,279	2,759,147
Private:							
Intercity .....	71,411	174,495	119,851	178,941	513,611	1,423,095	2,481,404
Urban .....	98,268	292,150	146,205	147,813	221,827	442,066	1,348,329
Farm .....	63,751	87,336	30,648	13,256	570	711	196,272
<b>Total</b> .....	<b>234,564</b>	<b>589,426</b>	<b>368,486</b>	<b>443,018</b>	<b>1,048,507</b>	<b>4,101,151</b>	<b>6,785,152</b>
Average capacity ton miles per truck							
For hire .....	4,500	17,000	35,800	68,600	131,900	601,200	231,300
Private:							
Intercity .....	10,400	15,600	38,800	74,200	114,600	307,400	76,000
Urban .....	5,800	9,300	20,300	37,200	57,100	147,000	20,400
Farm .....	4,200	6,300	17,700	36,800	11,900	118,500	6,300
<b>Total</b> .....	<b>6,000</b>	<b>10,100</b>	<b>26,300</b>	<b>53,700</b>	<b>97,200</b>	<b>361,000</b>	<b>47,700</b>
Percentage of capacity utilized							
For hire .....	21.8	30.8	50.4	50.0	45.1	65.1	61.4
Private:							
Intercity .....	16.6	24.3	40.7	41.5	40.4	44.6	41.1
Urban .....	10.4	21.7	37.8	37.4	38.6	40.3	33.2
Farm .....	14.7	17.9	32.3	35.4	37.2	.5	20.3
<b>Total</b> .....	<b>13.5</b>	<b>22.4</b>	<b>40.8</b>	<b>41.9</b>	<b>41.4</b>	<b>55.3</b>	<b>47.2</b>

1. Capacity ton miles are determined by multiplying the actual total number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is higher.

**Section I. Motor Truck Traffic Performed by Quebec Registered Trucks Inside and Outside the Province  
April 1, 1956 – March 31, 1957**

**TABLE 5. Total Gross Ton Miles Performed<sup>1</sup>**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gross ton miles							
	'000						
For hire .....	2,402	63,447	105,721	124,535	320,920	2,464,681	3,081,706
Private:							
Intercity .....	142,592	313,773	164,843	201,001	486,967	1,218,370	2,527,546
Urban .....	202,312	545,667	207,591	171,384	221,214	388,461	1,736,629
Farm .....	123,179	140,886	32,783	11,671	596	401	309,516
<b>Total</b> .....	<b>470,485</b>	<b>1,063,773</b>	<b>510,938</b>	<b>508,591</b>	<b>1,029,697</b>	<b>4,071,913</b>	<b>7,635,397</b>
Average gross ton miles per truck							
For hire .....	9,500	30,500	52,700	82,900	135,400	662,900	258,300
Private:							
Intercity .....	20,800	28,100	53,300	83,300	108,700	263,100	77,400
Urban .....	12,000	17,400	28,800	43,200	56,900	129,100	26,200
Farm .....	8,000	10,200	19,000	32,400	12,400	66,900	9,900
<b>Total</b> .....	<b>12,000</b>	<b>18,200</b>	<b>36,400</b>	<b>61,700</b>	<b>95,500</b>	<b>358,400</b>	<b>53,800</b>

1. Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

**Section I. Motor Truck Traffic Performed by Quebec Registered Trucks Inside and Outside the Province  
April 1, 1956 – March 31, 1957**

**TABLE 6. Total Revenue From Operations Performed by For Hire Carriers**

	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total revenue .....	\$ 97,000	\$ 5,332,000	\$ 7,208,000	\$ 8,302,000	\$ 17,805,000	\$ 97,398,000	\$ 136,142,000
Revenue per ton mile .....	¢ 39.3	¢ 48.9	¢ 19.9	¢ 16.1	¢ 12.6	¢ 6.7	¢ 8.0
Revenue per mile (Total mileage travelled) .....	¢ 7.1	¢ 21.7	¢ 33.9	¢ 43.3	¢ 43.8	¢ 68.2	¢ 54.5
Average yearly revenue per truck \$	400	2,600	3,600	5,500	7,500	26,200	11,400



**Section II. Motor Truck Traffic Performed by Quebec Registered Trucks Within the Province**  
**April 1, 1956 - March 31, 1957**

**TABLE 7. Mileage Travelled Within the Province**

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Total mileage travelled							
'000							
For hire .....	1,363	24,421	21,271	17,577	36,502	82,398	183,532
Private:							
Intercity .....	79,154	130,160	34,187	33,049	63,809	96,526	436,885
Urban .....	122,727	241,164	46,418	29,869	30,330	32,184	502,692
Farm .....	72,520	64,116	7,105	1,767	82	68	145,658
<b>Total</b> .....	<b>275,764</b>	<b>459,861</b>	<b>108,981</b>	<b>82,262</b>	<b>130,723</b>	<b>211,176</b>	<b>1,268,767</b>
Average yearly mileage per truck							
For hire .....	5,400	11,700	10,600	11,700	15,400	22,200	15,400
Private:							
Intercity .....	11,500	11,600	11,100	13,700	14,200	20,800	13,400
Urban .....	7,300	7,700	6,400	7,500	7,800	10,700	7,600
Farm .....	4,700	4,600	4,100	4,900	1,700	11,300	4,600
<b>Total</b> .....	<b>7,000</b>	<b>7,900</b>	<b>7,800</b>	<b>10,000</b>	<b>12,100</b>	<b>18,600</b>	<b>8,900</b>
Average journey (Average distance each ton of goods was carried)							
For hire .....	20.3	18.9	21.1	24.3	25.7	50.5	40.1
Private:							
Intercity .....	27.8	27.8	21.8	32.6	20.4	26.2	24.9
Urban .....	15.0	13.6	10.2	10.8	10.2	9.9	10.6
Farm .....	13.7	13.9	14.3	24.8	5.6	21.0	14.6
<b>Total</b> .....	<b>17.5</b>	<b>16.7</b>	<b>14.9</b>	<b>19.0</b>	<b>17.8</b>	<b>27.2</b>	<b>22.3</b>
Percentage of total mileage travelled empty							
For hire .....	46.6	24.2	24.7	23.9	29.1	23.0	24.8
Private:							
Intercity .....	60.2	52.6	37.0	34.5	39.7	43.7	47.5
Urban .....	53.1	37.1	26.5	29.2	29.6	35.7	39.0
Farm .....	71.0	70.5	54.9	45.5	47.3	52.3	69.7
<b>Total</b> .....	<b>59.8</b>	<b>45.5</b>	<b>31.3</b>	<b>30.6</b>	<b>34.4</b>	<b>34.4</b>	<b>43.4</b>

**Section II. Motor Truck Traffic Performed by Quebec Registered Trucks Within the Province**  
**April 1, 1956 - March 31, 1957**

**TABLE 8. Fuel Consumption Within the Province**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gallons of gasoline consumed							
'000							
For hire .....	99	2,081	2,307	2,339	4,992	11,758	23,576
Private:							
Intercity .....	5,116	10,009	3,556	3,878	8,426	13,684	44,669
Urban .....	8,402	18,945	4,837	3,762	4,421	4,987	45,354
Farm .....	4,790	4,637	673	219	14	8	10,341
<b>Total</b> .....	<b>18,407</b>	<b>35,672</b>	<b>11,373</b>	<b>10,198</b>	<b>17,853</b>	<b>30,437</b>	<b>123,940</b>
Total gallons of diesel oil consumed							
'000							
For hire .....	—	—	—	—	109	2,464	2,573
Private:							
Intercity .....	—	—	—	—	—	827	827
Urban .....	—	—	—	—	—	618	618
Farm .....	—	—	—	—	—	—	—
<b>Total</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>109</b>	<b>3,909</b>	<b>4,018</b>

**Section II. Motor Truck Traffic Performed by Quebec Registered Trucks Within the Province**  
**April 1, 1956 - March 31, 1957**

**TABLE 8. Fuel Consumption Within the Province - Concluded**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Miles per gallon of gasoline							
For hire .....	13.7	11.7	9.2	7.5	7.1	5.7	7.1
Private:							
Intercity .....	15.5	13.0	9.6	8.5	7.6	6.7	9.7
Urban .....	14.6	12.7	9.6	7.9	6.9	5.8	11.0
Farm .....	15.1	13.8	10.6	8.1	6.0	8.7	14.1
<b>Total</b> .....	<b>15.0</b>	<b>12.9</b>	<b>9.6</b>	<b>8.1</b>	<b>7.3</b>	<b>6.1</b>	<b>10.0</b>
Miles per gallon of diesel oil							
For hire .....	-	-	-	-	9.3	6.2	6.3
Private:							
Intercity .....	-	-	-	-	-	6.6	6.6
Urban .....	-	-	-	-	-	5.5	5.5
Farm .....	-	-	-	-	-	-	-
<b>Total</b> .....	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9.3</b>	<b>6.1</b>	<b>6.2</b>

**Section II. Motor Truck Traffic Performed by Quebec Registered Trucks Within the Province**  
**April 1, 1956 - March 31, 1957**

**TABLE 9. Goods Carried and Ton Miles Performed Within the Province**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total tons of goods carried							
'000							
For hire .....	12	574	1,712	1,937	4,942	14,130	23,307
Private:							
Intercity .....	406	1,505	2,217	2,244	9,789	21,224	37,385
Urban .....	683	4,666	5,415	5,093	8,395	17,938	42,190
Farm .....	681	1,126	692	189	38	1	2,727
<b>Total</b> .....	<b>1,782</b>	<b>7,871</b>	<b>10,036</b>	<b>9,463</b>	<b>23,164</b>	<b>53,293</b>	<b>103,609</b>
Average weight carried (Average weight of goods carried per one-way trip) <sup>1</sup>							
For hire .....	.3	.6	2.3	3.5	4.9	11.3	6.8
Private:							
Intercity .....	.4	.7	2.2	3.4	5.2	10.2	4.1
Urban .....	.2	.4	1.6	2.6	4.0	8.6	1.5
Farm .....	.4	.8	3.1	4.9	4.9	.1	.9
<b>Total</b> .....	<b>.3</b>	<b>.5</b>	<b>2.0</b>	<b>3.2</b>	<b>4.8</b>	<b>10.5</b>	<b>3.3</b>
Total ton miles performed							
'000							
For hire .....	247	10,849	36,197	47,046	126,842	714,176	935,357
Private:							
Intercity .....	11,282	41,834	48,236	73,053	199,540	556,461	930,406
Urban .....	10,245	63,324	55,293	55,212	85,625	178,226	447,925
Farm .....	9,357	15,630	9,898	4,693	212	3	39,793
<b>Total</b> .....	<b>31,131</b>	<b>131,637</b>	<b>149,624</b>	<b>180,004</b>	<b>412,219</b>	<b>1,448,866</b>	<b>2,353,481</b>
Average ton miles per truck							
For hire .....	1,000	5,200	18,100	31,300	53,500	192,100	78,400
Private:							
Intercity .....	1,600	3,700	15,600	30,300	44,500	120,200	28,500
Urban .....	600	2,000	7,700	13,900	22,000	59,300	6,800
Farm .....	600	1,100	5,700	13,000	4,400	500	1,300
<b>Total</b> .....	<b>800</b>	<b>2,300</b>	<b>10,700</b>	<b>21,800</b>	<b>38,200</b>	<b>127,500</b>	<b>16,600</b>

1. Excludes vehicles making trips empty.



**Section II. Motor Truck Traffic Performed by Quebec Registered Trucks Within the Province**  
**April 1, 1956 - March 31, 1957**

**TABLE 10. Truck Capacity Within the Province**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total capacity ton miles <sup>1</sup>							
'000							
For hire .....	1,134	35,248	71,760	94,320	280,414	1,233,397	1,716,273
Private:							
Intercity .....	67,193	171,088	118,140	175,625	494,399	1,266,879	2,293,324
Urban .....	98,268	292,150	146,205	147,813	221,827	442,066	1,348,329
Farm .....	63,751	87,336	30,648	13,256	570	711	196,272
<b>Total</b> .....	<b>230,346</b>	<b>585,822</b>	<b>366,753</b>	<b>431,014</b>	<b>997,210</b>	<b>2,943,053</b>	<b>5,554,198</b>
Average capacity ton miles per truck							
For hire .....	4,500	16,900	35,800	62,800	118,300	331,700	143,900
Private:							
Intercity .....	9,800	15,300	38,200	72,800	110,300	273,600	70,200
Urban .....	5,800	9,300	20,300	37,200	57,100	147,000	20,400
Farm .....	4,200	6,300	17,700	36,800	11,900	118,500	6,300
<b>Total</b> .....	<b>5,900</b>	<b>10,000</b>	<b>26,200</b>	<b>52,300</b>	<b>92,400</b>	<b>259,000</b>	<b>39,100</b>
Percentage of capacity utilized							
For hire .....	21.8	30.8	50.4	49.9	45.2	57.9	54.5
Private:							
Intercity .....	16.8	24.5	40.8	41.6	40.4	43.9	40.6
Urban .....	10.4	21.7	37.8	37.4	38.6	40.3	33.2
Farm .....	14.7	17.9	32.3	35.4	37.2	.5	20.3
<b>Total</b> .....	<b>13.5</b>	<b>22.5</b>	<b>40.8</b>	<b>41.8</b>	<b>41.3</b>	<b>49.2</b>	<b>42.4</b>

1. Capacity ton miles are determined by multiplying the actual number of miles travelled within the province by the estimated capacity or the weight of the heaviest load carried, whichever is higher.

**Section II. Motor Truck Traffic Performed by Quebec Registered Trucks Within the Province**  
**April 1, 1956 - March 31, 1957**

**TABLE 11. Gross Ton Miles Performed Within the Province<sup>1</sup>**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total gross ton miles							
'000							
For hire .....	2,402	63,104	105,694	114,474	285,014	1,260,350	1,831,038
Private:							
Intercity .....	134,504	307,410	162,672	197,200	468,911	1,078,674	2,349,371
Urban .....	202,312	545,667	207,591	171,384	221,214	388,461	1,736,629
Farm .....	123,179	140,886	32,783	11,671	596	401	309,516
<b>Total</b> .....	<b>462,397</b>	<b>1,057,067</b>	<b>508,740</b>	<b>494,729</b>	<b>975,735</b>	<b>2,727,886</b>	<b>6,226,534</b>
Average gross ton miles per truck							
For hire .....	9,500	30,300	52,700	76,200	120,300	339,000	153,500
Private:							
Intercity .....	19,600	27,500	52,600	81,800	104,600	233,000	72,000
Urban .....	12,000	17,400	28,800	43,200	56,900	129,100	26,200
Farm .....	8,000	10,200	19,000	32,400	12,400	66,900	9,900
<b>Total</b> .....	<b>11,800</b>	<b>18,100</b>	<b>36,300</b>	<b>60,000</b>	<b>90,500</b>	<b>240,100</b>	<b>43,800</b>

1. Gross ton miles performed are determined by adding to the total ton miles performed the weight of vehicle empty (tare) multiplied by total miles travelled.

**Section II. Motor Truck Traffic Performed by Quebec Registered Trucks Within the Province**  
**April 1, 1956 - March 31, 1957**

**TABLE 12. Revenue From Operations Performed by For Hire Carriers Within the Province**

Type of operation	Gross vehicle weight groups						
	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
Total revenue .....	\$ 97,000	\$ 5,306,000	\$ 7,203,000	\$ 7,922,000	\$ 16,364,000	\$ 55,863,000	\$ 92,755,000
Revenue per ton mile .....	¢ 39.3	¢ 48.9	¢ 19.9	¢ 16.8	¢ 12.9	¢ 7.8	¢ 9.9
Revenue per mile (total mileage travelled) .....	¢ 7.1	¢ 21.7	¢ 33.9	¢ 45.1	¢ 44.8	¢ 67.8	¢ 50.5
Average yearly revenue per truck .....	\$ 400	\$ 2,500	\$ 3,600	\$ 5,300	\$ 6,900	\$ 15,000	\$ 7,800

**Section III. Motor Truck Traffic Performed by Quebec Registered Trucks Engaged in Interprovincial and International Traffic April 1, 1956-March 31, 1957**

**TABLE 13. Total Tons of Goods Carried Into and Out of Quebec, by Origin and Destination, by Type of Operation**

Origin or Destination	For hire trucks	Private intercity trucks	All trucks
	'000 tons	'000 tons	'000 tons
To New Brunswick .....	28	37	65
From New Brunswick .....	18	10	28
To Ontario .....	1,199	971	2,170
From Ontario .....	1,121	234	1,355
To Manitoba .....	4	—	4
From Manitoba .....	4	—	4
To Alberta .....	9	—	9
From Alberta .....	9	—	9
To United States .....	91	314	405
From United States .....	157	62	219
<b>Grand Total .....</b> To	<b>1,331</b>	<b>1,322</b>	<b>2,653</b>
<b>From</b>	<b>1,309</b>	<b>306</b>	<b>1,615</b>

**Section III. Motor Truck Traffic Performed by Quebec Registered Trucks Engaged in Interprovincial and International Traffic April 1, 1956-March 31, 1957**

**TABLE 14. Interprovincial and International Traffic by Gross Vehicle Weight Groups**

Gross vehicle weight	For hire trucks			
	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per trip
	'000	'000	tons	miles
20,000 lbs. or less .....	1,050	4,094	4	138
20,001-25,000 lbs. ....	618	3,331	5	245
25,001-30,000 lbs. ....	2,195	13,249	6	232
30,001-35,000 lbs. ....	1,705	14,095	8	360
35,001-40,000 lbs. ....	1,720	16,992	10	170
40,001-45,000 lbs. ....	6,518	79,527	12	299
45,001 lbs. and over .....	47,676	678,628	14	312
<b>Total .....</b>	<b>61,482</b>	<b>809,916</b>	<b>13</b>	<b>294</b>
	Private intercity trucks			
	'000	'000	tons	miles
20,000 lbs. or less .....	2,237	3,681	2	85
20,001-25,000 lbs. ....	1,348	9,056	7	80
25,001-30,000 lbs. ....	1,835	12,524	7	50
30,001-35,000 lbs. ....	3,076	24,067	8	89
35,001-40,000 lbs. ....	2,293	22,413	10	13
40,001-45,000 lbs. ....	1,375	19,158	14	107
45,001 lbs. and over .....	5,301	81,386	15	129
<b>Total .....</b>	<b>17,465</b>	<b>172,285</b>	<b>10</b>	<b>94</b>



**Section III Motor Truck Traffic Performed by Quebec Registered Trucks Engaged in Interprovincial and International Traffic April 1, 1956 — March 31, 1957**

**TABLE 15. Commodities Carried by Quebec Registered Trucks in Interprovincial and International Traffic**

	For hire trucks						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	56	1,515	22,248	15	397	840	3.78
Animals and animal products .....	135	4,630	56,579	12	419	3,519	6.22
Mine products .....	52	768	12,366	16	238	509	4.12
Forest products .....	33	500	5,697	11	172	297	5.21
Manufactures and miscellaneous .....	1,498	35,001	447,450	13	299	25,311	5.66
N.O.S. general freight .....	866	19,063	265,576	14	—	18,066	6.80
<b>Total .....</b>	<b>2,640</b>	<b>61,482</b>	<b>809,916</b>	<b>13</b>	<b>307</b>	<b>48,542</b>	<b>5.99</b>
	Private intercity trucks						
	Weight of goods carried	Total miles travelled with load	Total ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	160	3,641	44,804	12	230		
Animals and animal products .....	53	1,352	9,718	7	183		
Mine products .....	295	965	8,397	9	28		
Forest products .....	549	2,575	24,693	10	45		
Manufactures and miscellaneous .....	482	7,972	78,833	10	164		
N.O.S. general freight .....	89	960	5,840	6	66		
<b>Total .....</b>	<b>1,628</b>	<b>17,465</b>	<b>172,285</b>	<b>10</b>	<b>106</b>		

# APPENDIX I Sampling Results

Type of operation	Gross vehicle weight groups						
	0-2½ tons 0-5000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
	Estimated average Quebec truck population April 1, 1956 — March 31, 1957						
For hire .....	252	2,082	2,005	1,502	2,370	3,718	11,929
Private:							
Intercity .....	6,858	11,178	3,090	2,412	4,481	4,630	32,649
Urban .....	16,830	31,346	7,202	3,971	3,888	3,008	66,245
Farm .....	15,336	13,878	1,728	360	48	6	31,356
<b>Total</b> .....	<b>39,276</b>	<b>58,484</b>	<b>14,025</b>	<b>8,245</b>	<b>10,787</b>	<b>11,362</b>	<b>142,179</b>
	Total number of trucks selected in samples						
For hire .....	13	224	318	235	493	889	2,172
Private:							
Intercity .....	378	1,214	497	369	986	1,039	4,483
Urban .....	924	3,409	1,170	622	967	794	7,886
Farm .....	847	1,515	285	58	16	2	2,723
<b>Total</b> .....	<b>2,162</b>	<b>6,362</b>	<b>2,270</b>	<b>1,284</b>	<b>2,462</b>	<b>2,724</b>	<b>17,264</b>
	Number of questionnaires returned completed						
For hire .....	6*	115	153	121	262	478	1,135
Private:							
Intercity .....	194	624	216	174	475	504	2,187
Urban .....	473	1,750	499	298	480	358	3,858
Farm .....	442	778	115	21	3*	1*	1,360
<b>Total</b> .....	<b>1,115</b>	<b>3,267</b>	<b>983</b>	<b>614</b>	<b>1,220</b>	<b>1,341</b>	<b>8,540</b>
	Number of sampled trucks reported not in use during survey week						
For hire .....	1	32	71	49	89	167	409
Private:							
Intercity .....	70	219	140	93	256	261	1,039
Urban .....	173	620	333	161	240	205	1,732
Farm .....	179	366	93	19	5	—	662
<b>Total</b> .....	<b>423</b>	<b>1,237</b>	<b>637</b>	<b>322</b>	<b>590</b>	<b>633</b>	<b>3,842</b>
	Number of questionnaires returned incomplete and unusable						
For hire .....	5	41	44	25	57	93	265
Private:							
Intercity .....	73	223	80	55	136	129	696
Urban .....	178	622	190	89	129	51	1,299
Farm .....	155	225	45	10	3	—	438
<b>Total</b> .....	<b>411</b>	<b>1,111</b>	<b>359</b>	<b>179</b>	<b>325</b>	<b>313</b>	<b>2,698</b>
	Number of questionnaires not returned (non-respondents)						
For hire .....	1	36	50	40	85	151	363
Private:							
Intercity .....	41	148	61	47	119	145	561
Urban .....	100	417	148	74	118	140	997
Farm .....	71	146	32	8	5	1	263
<b>Total</b> .....	<b>213</b>	<b>747</b>	<b>291</b>	<b>169</b>	<b>327</b>	<b>437</b>	<b>2,184</b>

\* Statistics appearing in these cells throughout the report are not considered reliable.



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53-209

ANNUAL

Canada, Statistics, Bureau of



MOTOR TRANSPORT TRAFFIC STATISTICS

PROVINCE OF QUEBEC

1957

*Published by Authority of*

The Honourable Gordon Churchill, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS

Public Finance and Transportation Division

Transportation and Public Utilities Section

8504-559-127

Price 25 cents



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PROVINCE OF QUEBEC  
JANUARY 1-DECEMBER 31, 1957

CHART-1 TRUCK REGISTRATIONS BY TYPE OF OPERATION

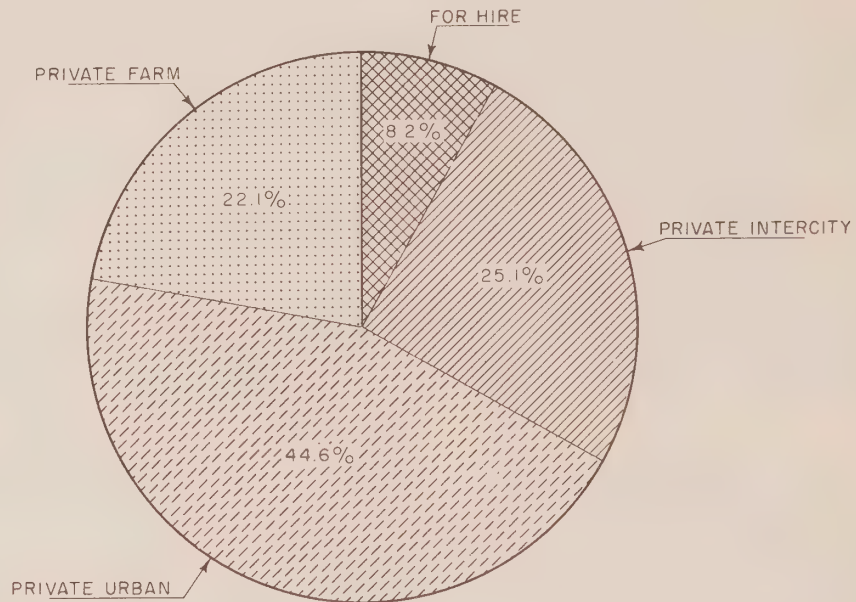
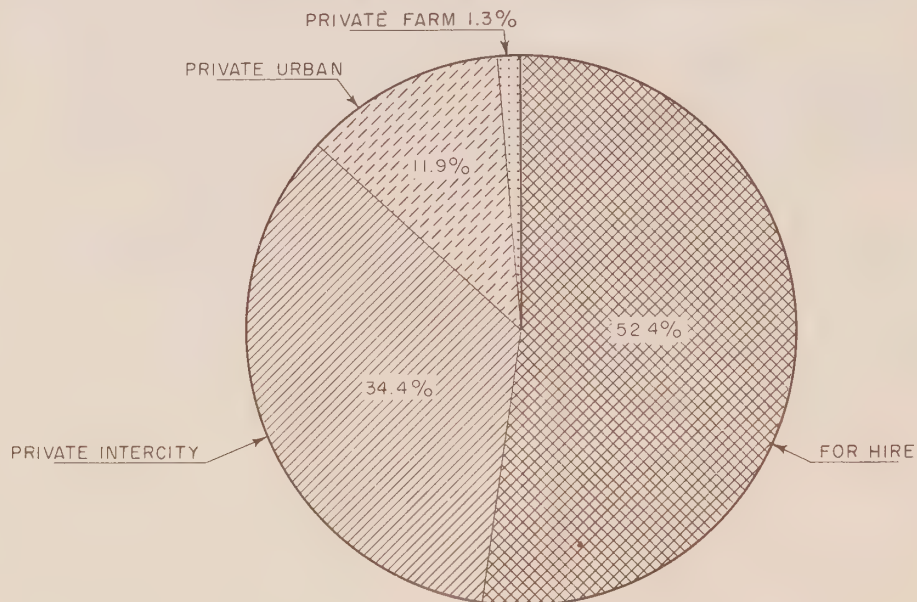


CHART-2 NET TON MILES BY TYPE OF OPERATION



# INTRODUCTION

## Methods followed in Survey

The 1957 annual survey of motor transport traffic in the Province of Quebec is based upon a sample of approximately 12 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations in force, the survey was conducted in four quarterly segments with approximately one-fourth of the total sample selected each quarter. Vehicles selected were coded so that a particular vehicle would not be chosen more than once during each licence year. Each quarterly segment of the survey was conducted for a seven day period, Sunday through Saturday.

All trucks registered in the province are included with the following exceptions: (a) those not engaged in transportation services; and (b) military and other government owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by function or type of operation and by gross vehicle weight groups. The four functional categories used are: for-hire, private intercity, private urban and private farm. For-hire trucks are those operated for compensation or gain anywhere in the province according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those which are operated predominantly within urban or metropolitan areas; and private farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In Quebec, trucks operated for compensation as contract or common carriers in intercity service or within a specified locality and a radius of 5 miles from the boundary thereof, are required to obtain an "L" licence. Vehicles owned by farmers and used in connection with their own farm oper-

ations are classified as farm vehicles and issued with an "N" licence. All privately owned vehicles engaged in intercity and/or urban operations are issued with an "F" licence. Vehicles in the sample, therefore, were classified into the four functional categories on the following basis:

For-hire	— "L" licensed vehicles.
Private-intercity	— "F" licensed vehicles operated predominantly outside urban areas.
Private-urban	— "F" licensed vehicles operated predominantly within urban areas.
Private-farm	— "N" licensed vehicles.

Some "F" licensed vehicles are operated for compensation but were not included in the for-hire category. The number of such vehicles was not known and a reliable estimate was not obtained on the basis of replies to the survey questionnaire. As a result, the data shown throughout this report as "For-hire" is understated and that for "Private intercity" and "Private urban" is overstated by the extent of these for-hire vehicles with "F" licences.

Since Quebec licenses motor vehicles on a tare weight basis it was necessary to estimate equivalent gross vehicle weights to provide comparability with other annual provincial reports. For each truck in the sample the gross vehicle weight was estimated from the recorded tare weight and either the estimated carrying capacity or the weight of the heaviest load carried. The gross vehicle weight of each tractor-trailer combination was estimated from the tare weight of the tractor, the estimated tare weight of the trailer plus the weight of the heaviest load carried. It is emphasized that this method provides only approximately equivalent gross vehicle weights and therefore exact provincial comparability of the weight group classification cannot be assured.

## Expansion of Survey Results

The distribution of sample vehicles by gross vehicle weight groups and by function was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week.

During the year survey questionnaires were sent to the owners or operators of 17,060 motor vehicles. Of this number 8,388 were returned completed and 3,920 vehicles were reported not used

The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates. Yearly operating averages such as average yearly mileage were calculated from the average number of vehicles registered during the twelve month period. All other operating ratios were obtained from the twelve month aggregates.

## Response

during the survey week. In addition 3,025 questionnaires were returned with insufficient information and were therefore unusable. Non response to the survey totalled 1,727 or 10.1 per cent.



## Review of Survey Results

Excluding vehicles that do not perform transportation services, the average number of trucks registered in Quebec during the year was 147,075. Of these 12,081 or 8.2 per cent were common or for-hire carriers; 36,895 or 25.1 per cent were private intercity vehicles; 65,564 or 44.6 per cent were private trucks operating predominantly within urban areas; and 32,535 or 22.1 per cent were private farm trucks.

In the tables presented, blanks appear in a number of weight classifications where no vehicles were chosen in any of the quarterly sample selections. It does not follow that there are no vehicles in the province belonging to these classifications.

### Section 1: Traffic Inside and Outside the Province

Section 1 contains estimates of total traffic performed by all Quebec registered trucks both inside and outside the province.

From the data presented in this section it may be observed that although for-hire vehicles were only 8.2 per cent of all trucks registered in Quebec, they accounted for 52.4 per cent of the total net ton miles performed during 1957. This results not only from the comparatively high average yearly mileage of for-hire trucks operating inside and outside of Quebec (21,500 as opposed to an average of 9,100 miles for all trucks) but also from the heavier average load carried (8.4 tons as compared with an average of 4.2 tons for all trucks). The heavier loads carried by for-hire trucks is to be expected since, as revealed in the appendix, nearly one-third of these vehicles have a gross vehicle weight of over 15 tons whereas only six per cent of all other classes combined are in this upper weight group. The predominance of heavier vehicles in the for-hire class also explains the low miles per gallon of gasoline ratio of 6.7 as compared with a ratio of 9.6 for all vehicles.

### Section 2: Traffic Within the Province

This section presents estimates of traffic performed by Quebec registered trucks entirely inside the province excluding the "outside the province" portion of interprovincial and inter-

national traffic as well as a small amount of traffic performed entirely outside the province. Comparing the data presented in Section 1 and Section 2, it is apparent that for-hire vehicles accumulated about 40 per cent and private intercity about 7 per cent of their total net ton miles outside of Quebec.

### Section 3: Intraprovincial Traffic

This section includes estimates of for-hire and private intercity operations originating and terminating entirely inside the boundaries of Quebec. It is significant to note that vehicles of over 15 tons accounted for 78.4 per cent of the total net ton miles performed by for-hire trucks and 58.0 per cent of the total performed by private intercity trucks in intraprovincial traffic. Of the total net ton miles performed by both for-hire and private intercity trucks, manufactured products accounted for 41.3 per cent.

### Section 4: Interprovincial and International Traffic

Statistics of traffic performed by for-hire and private intercity trucks between Quebec and other provinces and the United States are included in this section. However, these interprovincial and international tables exclude traffic performed by Quebec registered road tractors which deliver their trailers within the province to border points for transfer to other tractors which, in turn, transport them through an adjoining province or state. On the present basis of sampling motor transport traffic, comparatively few Quebec registered trucks engaging in interprovincial and international traffic are included in these surveys and as a result wholly reliable estimates of such traffic have not been obtained. Hence the data in this section of the report should be used with considerable caution.

These estimates indicate with some reasonableness, however, that well over four-fifths of the total tons of goods carried by Quebec registered trucks in interprovincial and international traffic was with Ontario; and, that over two-fifths of the total net ton miles performed and about one-third of the revenue earned by for-hire vehicles was in interprovincial and international operations.



**SECTION 1. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE,  
JANUARY 1 – DECEMBER 31, 1957**

**TABLE 1. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	259,409	479,020	460,635	132,321	1,331,885
Average yearly mileage per truck .....		21,500	13,000	7,000	4,100	9,100
Average distance each ton was carried .....		57.5	23.8	9.5	16.4	27.2
Percentage of total mileage travelled empty .....		22.9	46.8	39.5	69.2	41.9
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	30,847	50,962	40,808	9,426	132,043
Miles per gallon of gasoline .....		6.7	9.2	11.2	14.1	9.6
Total gallons of diesel oil consumed .....	'000	8,245	1,829	783	—	10,862
Miles per gallon of diesel oil .....		6.4	6.1	6.0	—	6.3
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	29,350	46,422	40,232	2,424	118,428
Average weight carried <sup>1</sup> .....	ton	8.4	4.3	1.4	1.0	4.2
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	1,686,934	1,106,833	383,840	39,868	3,217,480
Average net ton miles per truck .....		139,600	30,000	5,900	1,200	21,900
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	2,885,396	2,699,118	1,230,812	172,190	6,987,516
Average capacity ton miles per truck .....		238,800	73,200	18,800	5,300	47,500
Percentage of capacity utilized .....		58.5	41.0	31.2	23.2	46.0
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	3,210,240	2,736,426	1,607,373	283,757	7,837,796
Average gross ton miles per truck .....		265,700	74,200	24,500	8,700	53,300
<b>Revenue:</b>						
Total revenue .....	\$'000	135,170	—	—	—	—
Revenue per ton mile .....	¢	8.0	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	52.1	—	—	—	—
Average revenue per truck .....	\$	11,200	—	—	—	—

**TABLE 2: All Trucks by Gross Vehicle Weight Groups**

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
<b>Mileage:</b>							
Total mileage travelled ..... '000	256,917	451,227	109,291	86,418	133,235	294,797	1,331,885
Average yearly mileage per truck ..... 6,200		7,500	7,800	10,000	12,600	24,300	9,100
Average distance each ton was carried ..... 13.9		9.9	17.8	19.9	19.4	36.4	27.2
Percentage of total mileage travelled empty ..... 62.3		43.5	30.6	30.1	36.6	31.5	41.9
<b>Fuel:</b>							
Total gallons of gasoline consumed ..... '000	16,721	34,948	11,237	10,545	18,736	39,856	132,043
Miles per gallon of gasoline ..... 15.4		12.9	9.7	8.1	7.1	5.7	9.6
Total gallons of diesel oil consumed ..... '000	—	—	85	96	—	10,681	10,862
Miles per gallon of diesel oil ..... —		—	9.2	8.8	—	6.2	6.3
Total gallons of other fuel consumed ..... '000	—	—	—	—	—	—	—
Miles per gallon of other fuel ..... —		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried ..... '000	1,995	13,664	9,382	9,497	21,333	62,557	118,428
Average weight carried <sup>1</sup> ..... ton	0.4	0.5	2.2	3.1	4.9	11.3	4.2
<b>Net ton miles:</b>							
Total net ton miles performed ..... '000	37,765	134,827	167,308	188,785	413,961	2,274,834	3,217,480
Average net ton miles per truck ..... 900		2,200	11,900	21,800	39,000	187,300	21,900
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>1</sup> ..... '000	233,378	569,202	334,848	451,491	1,019,795	4,328,802	6,987,516
Average capacity ton miles per truck ..... 5,600		9,400	27,300	52,200	96,100	356,500	47,500
Percentage of capacity utilized ..... 16.2		23.7	43.5	41.8	40.6	52.6	46.0
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> ..... '000	441,208	1,047,340	525,699	522,553	991,077	4,309,919	7,837,796
Average gross ton miles per truck ..... 10,700		17,400	37,300	60,400	93,400	354,900	53,300

TABLE 3. For Hire Trucks by Gross Vehicle weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000 1,369	22,718	25,294	25,317	37,919	146,792	259,409
Average yearly mileage per truck .....	5,900	12,600	11,500	14,700	16,700	33,100	21,500
Average distance each ton was carried .....	13.7	21.9	21.5	25.6	21.9	30.6	57.5
Percentage of total mileage travelled empty .....	24.0	28.3	20.9	22.5	32.6	19.9	22.9
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000 94	1,898	2,731	3,142	5,321	17,661	30,847
Miles per gallon of gasoline .....	14.6	12.0	9.3	7.8	7.1	5.4	6.7
Total gallons of diesel oil consumed .....	'000 —	—	—	96	—	8,149	8,245
Miles per gallon of diesel oil ..	—	—	—	8.3	—	6.3	6.4
Total gallons of other fuel consumed .....	'000 —	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000 51	645	2,348	2,612	6,052	17,642	29,350
Average weight carried <sup>1</sup> .....	ton 0.7	0.9	2.5	3.4	5.2	12.1	8.4
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000 704	14,134	50,505	66,895	132,669	1,422,027	1,686,934
Average net ton miles per truck .....	3,000	7,800	23,000	38,700	58,300	369,300	139,600
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000 1,302	36,663	92,283	132,336	290,714	2,332,098	2,885,396
Average capacity ton miles per truck .....	5,600	20,400	42,100	76,600	127,800	605,600	238,800
Percentage of capacity utilized .....	54.0	38.6	54.7	50.5	45.6	61.0	58.5
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000 2,878	64,848	133,874	166,784	295,971	2,545,885	3,210,240
Average gross ton miles per truck .....	12,300	36,000	61,000	96,500	130,200	661,100	265,700
<b>Revenue:</b>							
Total revenue .....	\$'000 353	6,029	9,896	9,199	15,636	94,057	135,170
Revenue per ton mile .....	¢ 50.1	42.7	19.6	13.8	11.8	6.6	8.0
Revenue per mile (total mileage travelled) .....	¢ 25.8	26.5	39.1	36.3	41.2	64.1	52.1
Average revenue per truck .....	\$ 1,500	3,300	4,500	5,300	6,900	24,400	11,200

TABLE 4. Private Intercity Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000 77,025	139,711	42,892	35,570	68,446	115,376	479,020
Average yearly mileage per truck .....	10,200	11,100	11,600	12,100	14,200	21,900	13,000
Average distance each ton was carried .....	29.1	27.0	20.8	21.5	22.4	24.7	23.8
Percentage of total mileage travelled empty .....	59.4	48.2	40.3	38.1	41.1	45.1	46.8
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000 5,167	10,642	4,351	4,226	9,517	17,059	50,962
Miles per gallon of gasoline .....	14.9	13.1	9.7	8.4	7.2	6.2	9.2
Total gallons of diesel oil consumed .....	'000 —	—	85	—	—	1,744	1,829
Miles per gallon of diesel oil .....	—	—	9.2	—	—	6.0	6.1
Total gallons of other fuel consumed .....	'000 —	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000 732	1,908	3,021	3,811	9,608	27,342	46,422
Average weight carried <sup>1</sup> .....	ton 0.7	0.7	2.4	3.7	5.3	10.6	4.3
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000 21,287	51,507	62,734	82,020	214,827	674,463	1,106,838
Average net ton miles per truck .....	2,800	4,100	16,900	27,800	44,600	128,200	30,000
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000 87,576	184,311	154,661	194,417	531,678	1,546,475	2,699,118
Average capacity ton miles per truck .....	11,600	14,600	41,700	65,900	110,300	293,900	73,200
Percentage of capacity utilized .....	24.3	27.9	40.6	42.2	40.4	43.6	41.0
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000 142,303	335,608	202,135	214,803	506,572	1,335,005	2,736,426
Average gross ton miles per truck .....	18,900	26,600	54,500	72,800	105,100	253,700	74,200

See footnotes page 11.

**SECTION 11 TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS WITHIN THE PROVINCE,  
JANUARY 1—DECEMBER 31, 1957.**

**TABLE 1. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	197,826	461,410	460,635	132,821	1,252,692
Average yearly mileage per truck .....		16,400	12,500	7,000	4,100	8,500
Average distance each ton was carried .....		34.7	22.4	9.5	16.4	20.9
Percentage of total mileage travelled empty .....		26.1	46.6	39.5	69.2	43.2
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	24,460	48,803	40,808	9,426	123,497
Miles per gallon of gasoline .....		7.1	9.3	11.2	14.1	9.8
Total gallons of diesel oil consumed .....	'000	3,935	1,578	788	—	6,301
Miles per gallon of diesel oil .....		6.1	5.8	6.0	—	6.0
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	28,830	46,086	40,232	2,424	117,572
Average weight carried <sup>1</sup> .....	ton	6.8	4.2	1.4	1.0	3.4
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	1,000,717	1,030,968	383,840	39,868	2,455,393
Average net ton miles per truck .....		82,800	27,900	5,900	1,200	16,700
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	1,907,802	2,521,919	1,230,812	172,190	5,832,723
Average capacity ton miles per truck .....		157,900	68,400	18,800	5,300	39,700
Percentage of capacity utilized .....		52.5	40.9	31.2	23.2	42.1
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	2,016,402	2,571,065	1,607,373	283,757	6,478,597
Average gross ton miles per truck .....		166,900	69,700	24,500	8,700	44,100
<b>Revenue:</b>						
Total revenue .....	\$'000	94,823	—	—	—	—
Revenue per ton mile .....	¢	9.5	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	47.9	—	—	—	—
Average revenue per truck .....	\$	7,800	—	—	—	—

**TABLE 2. All Trucks by Gross Vehicle Weight Groups**

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	256,318	448,375	106,074	84,913	128,967	228,045
Average yearly mileage per truck .....		6,200	7,400	7,500	9,800	12,200	18,800
Average distance each ton was carried .....		18.9	9.8	17.1	19.5	18.9	24.9
Percentage of total mileage travelled empty .....		62.4	43.3	30.4	30.0	36.2	36.2
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	16,672	34,744	10,937	10,353	18,103	32,688
Miles per gallon of gasoline .....		15.4	12.9	9.7	8.1	7.1	5.8
Total gallons of diesel oil consumed .....	'000	—	—	24	72	—	6,205
Miles per gallon of diesel oil .....		—	—	9.2	8.8	—	6.0
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	1,995	13,663	9,360	9,471	21,312	61,771
Average weight carried <sup>1</sup> .....	ton	0.4	0.5	2.2	3.1	4.9	10.6
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	37,711	134,356	159,927	185,081	402,390	1,535,928
Average net ton miles per truck .....		900	2,200	11,400	21,400	37,900	126,500
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	232,938	566,604	371,471	442,821	987,334	3,231,555
Average capacity ton miles per truck .....		5,600	9,400	26,400	51,200	93,000	266,100
Percentage of capacity utilized .....		16.2	23.7	43.1	41.8	40.8	47.5
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	440,248	1,040,481	507,561	513,336	959,369	3,017,602
Average gross ton miles per truck .....		10,700	17,300	36,000	59,400	90,400	248,500



TABLE 3. For Hire Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000 1,369	22,495	24,313	24,288	35,590	89,771	197,826
Average yearly mileage per truck .....	5,300	12,500	11,100	14,100	15,700	23,300	16,400
Average distance each ton was carried .....	13.7	21.8	20.2	24.7	20.8	43.7	34.7
Percentage of total mileage travelled empty .....	24.0	28.5	20.8	22.0	32.3	25.7	26.1
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000 94	1,885	2,613	3,006	4,949	11,913	24,460
Miles per gallon of gasoline .....	14.6	11.9	9.3	7.9	7.2	5.6	7.1
Total gallons of diesel oil consumed .....	'000 —	—	—	72	—	3,863	3,935
Miles per gallon of diesel oil .....	—	—	—	8.8	—	6.1	6.1
Total gallons of other fuel consumed .....	'000 —	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of good carried .....	'000 51	645	2,339	2,605	6,034	17,156	28,830
Average weight carried <sup>1</sup> .....	ton 0.7	0.9	2.4	3.4	5.2	11.2	6.8
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000 704	14,077	47,165	64,397	125,313	749,061	1,000,717
Average net ton miles per truck .....	3,000	7,800	21,500	37,300	55,100	194,500	82,800
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000 1,302	36,463	87,631	126,176	273,169	1,383,061	1,907,802
Average capacity ton miles per truck .....	5,600	20,200	40,000	73,000	120,100	359,100	157,900
Percentage of capacity utilized .....	54.0	38.6	53.8	51.0	45.9	54.2	52.5
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000 2,878	64,408	126,984	160,292	277,919	1,383,921	2,016,402
Average gross ton miles per truck .....	12,300	35,800	57,900	92,800	122,200	359,400	166,900
<b>Revenue:</b>							
Total revenue .....	\$'000 353	5,971	9,457	8,947	14,715	55,380	94,823
Revenue per ton mile .....	¢ 50.1	42.4	20.1	13.9	11.7	7.4	9.5
Revenue per mile (total mileage travelled) .....	¢ 25.8	26.5	38.9	36.8	41.3	61.7	47.9
Average revenue per truck .....	\$ 1,500	3,300	4,300	5,200	6,500	14,400	7,800

TABLE 4. Private Intercity Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000 76,426	137,082	40,656	35,094	66,507	105,645	461,410
Average yearly mileage per truck .....	10,100	10,900	11,000	11,900	13,800	20,100	12,500
Average distance each ton was carried .....	29.0	26.8	19.5	21.3	21.9	22.5	22.4
Percentage of total mileage travelled empty .....	59.5	47.6	40.1	38.2	40.6	45.2	46.6
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000 5,118	10,451	4,169	4,170	9,256	15,639	48,803
Miles per gallon of gasoline .....	14.9	13.1	9.7	8.4	7.2	6.2	9.3
Total gallons of diesel oil consumed .....	'000 —	—	24	—	—	1,554	1,578
Miles per gallon of diesel oil .....	—	—	9.2	—	—	5.8	5.8
Total gallons of other fuel consumed .....	'000 —	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000 732	1,907	3,008	3,792	9,605	27,042	46,086
Average weight carried <sup>1</sup> .....	ton 0.7	0.7	2.4	3.7	5.3	10.5	4.2
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000 21,233	51,093	58,693	80,814	210,612	608,523	1,030,968
Average net ton miles per truck .....	2,800	4,100	15,800	27,400	43,700	115,600	27,900
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000 87,136	181,913	145,936	191,907	516,762	1,398,265	2,521,919
Average capacity ton miles per truck .....	11,600	14,400	39,300	65,100	107,200	265,700	68,400
Percentage of capacity utilized .....	24.4	28.1	40.2	42.1	40.8	43.5	40.9
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000 141,343	329,189	190,887	212,078	492,916	1,204,652	2,571,065
Average gross ton miles per truck .....	18,800	26,100	51,500	71,900	102,200	228,900	69,700

TABLE 5. Private Urban Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000 110,001	232,569	34,142	24,862	26,432	32,629	460,635
Average yearly mileage per truck .....	6,300	7,400	5,300	6,800	7,700	10,800	7,000
Average distance each ton was carried .....	14.2	5.1	12.1	13.1	11.7	10.1	9.5
Percentage of total mileage travelled empty .....	57.2	36.7	22.4	25.6	30.6	35.9	39.5
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000 6,945	18,299	3,491	3,095	3,842	5,136	40,808
Miles per gallon of gasoline .....	15.8	12.7	9.8	8.0	6.9	5.4	11.2
Total gallons of diesel oil consumed .....	'000 —	—	—	—	—	788	788
Miles per gallon of diesel oil .....	—	—	—	—	—	6.0	6.0
Total gallons of other fuel consumed .....	'000 —	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000 618	10,117	3,405	2,934	5,585	17,573	40,232
Average weight carried <sup>1</sup> .....	ton 0.2	0.4	1.6	2.1	3.6	8.5	1.4
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000 8,784	51,784	41,198	38,433	65,297	178,344	383,840
Average net ton miles per truck .....	500	1,600	6,400	10,500	18,900	58,900	5,900
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000 86,733	271,690	107,734	120,417	194,009	450,229	1,230,812
Average capacity ton miles per truck .....	5,000	8,600	16,800	32,700	56,300	148,700	18,800
Percentage of capacity utilized .....	10.1	19.1	38.2	31.9	33.7	39.6	31.2
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000 181,814	520,154	154,132	136,917	185,327	429,029	1,607,373
Average gross ton miles per truck .....	10,400	16,500	24,000	37,200	53,700	141,700	24,500

TABLE 6. Private Farm Trucks by Gross Vehicle Weight Groups

	0-2½ tons	2½-5 tons	5-7½ tons	7½-10 tons	10-15 tons	Over 15 tons	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000 68,522	56,229	6,963	669	438	—	132,821
Average yearly mileage per truck .....	4,300	3,900	3,900	2,300	6,300	—	4,100
Average distance each ton was carried .....	11.8	17.5	21.2	10.2	13.3	—	16.4
Percentage of total mileage travelled empty .....	74.6	65.9	46.7	49.6	37.3	—	69.2
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000 4,515	4,109	664	82	56	—	9,426
Miles per gallon of gasoline .....	15.2	13.7	10.5	8.2	7.8	—	14.1
Total gallons of diesel oil consumed .....	'000 —	—	—	—	—	—	—
Miles per gallon of diesel oil .....	—	—	—	—	—	—	—
Total gallons of other fuel consumed .....	'000 —	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000 594	994	608	140	88	—	2,424
Average weight carried <sup>1</sup> .....	ton 0.4	0.9	3.5	4.3	4.3	—	1.0
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000 6,990	17,402	12,871	1,437	1,168	—	39,868
Average net ton miles per truck .....	400	1,200	7,200	4,900	16,900	—	1,200
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000 57,767	76,538	30,170	4,321	3,394	—	172,190
Average capacity ton miles per truck .....	3,600	5,300	17,000	14,700	49,200	—	5,300
Percentage of capacity utilized .....	12.1	22.7	42.7	33.3	34.4	—	23.2
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000 114,213	126,730	35,558	4,049	3,207	—	283,757
Average gross ton miles per truck .....	7,100	8,800	20,000	13,800	46,500	—	8,700

<sup>1</sup> Ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual total number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

TABLE 7. Selected Statistics of Intercity Traffic by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
10,000 lbs. and under .....	696	17, 114	14, 781	0. 9	21. 2	6, 324	42. 3
10,001- 20,000 lbs. ....	4, 944	38, 222	111, 562	2. 9	22. 6	18, 404	16. 5
20,001- 30,000 lbs. ....	6, 034	24, 088	125, 313	5. 2	20. 8	14, 715	11. 7
30,001- 50,000 lbs. ....	17, 156	66, 674	749, 061	11. 2	43. 7	55, 380	7. 4
50,001 lbs. and over .....	—	—	—	—	—	—	—
<b>Total .....</b>	<b>28, 830</b>	<b>145, 098</b>	<b>1, 000, 717</b>	<b>6. 8</b>	<b>34. 7</b>	<b>94, 823</b>	<b>9. 5</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
	10,000 lbs. and under .....	2, 639	102, 770	72, 326	0. 7	27. 4	
10,001- 20,000 lbs. ....	6, 800	46, 029	139, 507	3. 0	20. 5		
20,001- 30,000 lbs. ....	9, 605	39, 515	210, 612	5. 3	21. 9		
30,001- 50,000 lbs. ....	27, 042	57, 909	608, 523	10. 5	22. 5		
50,001 lbs. and over .....	—	—	—	—	—		
<b>Total .....</b>	<b>46, 086</b>	<b>246, 223</b>	<b>1, 030, 968</b>	<b>4. 2</b>	<b>22. 4</b>		

SECTION III. INTRAPROVINCIAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS  
JANUARY 1 - DECEMBER 31, 1957

TABLE 1. Selected Statistics by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
10,000 lbs. and under .....	180	4,603	4,734	1.0	26.3	1,029	21.7
10,001- 20,000 lbs. ....	1,637	17,509	58,174	3.3	35.5	7,094	12.2
20,001- 30,000 lbs. ....	2,348	14,612	80,262	5.5	34.2	7,788	9.7
30,001- 50,000 lbs. ....	8,823	46,969	521,098	11.1	59.1	39,277	7.5
50,001 lbs. and over .....	—	—	—	—	—	—	—
<b>Total .....</b>	<b>12,988</b>	<b>83,693</b>	<b>664,268</b>	<b>7.9</b>	<b>51.1</b>	<b>55,188</b>	<b>8.3</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under .....	2,406	94,569	69,495	0.7	28.9		
10,001- 20,000 lbs. ....	6,445	42,581	132,109	3.1	20.5		
20,001- 30,000 lbs. ....	8,906	37,464	202,425	5.4	22.7		
30,001- 50,000 lbs. ....	25,383	53,799	553,275	10.4	22.0		
50,001 lbs. and over .....	-	—	—	—	—		
<b>Total .....</b>	<b>43,140</b>	<b>228,413</b>	<b>962,304</b>	<b>4.2</b>	<b>22.3</b>		



TABLE 2. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	282	1,929	15,860	8.2	56.3	1,090	6.9
Animals and animal products .....	1,098	15,800	73,295	4.6	66.8	5,822	7.9
Mine products .....	4,868	6,944	76,592	11.0	15.7	5,700	7.4
Forest products .....	857	3,206	31,803	9.9	37.1	1,941	6.1
Manufactures and miscellaneous .....	4,061	34,073	303,213	8.9	74.7	24,613	8.1
N.O.S. general freight .....	1,822	21,741	163,505	7.5	89.7	16,010	9.8
<b>Total .....</b>	<b>12,988</b>	<b>83,693</b>	<b>664,268</b>	<b>7.9</b>	<b>51.1</b>	<b>55,188</b>	<b>8.3</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	1,108	11,770	41,098	3.5	37.1		
Animals and animal products .....	1,265	27,405	88,849	3.2	70.2		
Mine products .....	24,686	27,266	250,347	9.5	10.5		
Forest products .....	5,438	23,056	165,723	7.2	30.5		
Manufactures and miscellaneous .....	9,538	123,195	368,631	3.0	38.6		
N.O.S. general freight .....	1,105	15,721	37,656	2.4	34.1		
<b>Total .....</b>	<b>43,140</b>	<b>228,413</b>	<b>962,304</b>	<b>4.2</b>	<b>22.3</b>		

SECTION IV. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS  
JANUARY 1—DECEMBER 31, 1957

TABLE 1. Tons of Goods Carried

Origin or destination	For hire			Private intercity			Total		
	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total
	'000 tons								
Newfoundland .....	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—
New Brunswick .....	48	49	97	2	10	12	50	59	109
Ontario .....	1,030	1,003	2,033	70	506	576	1,100	1,509	2,609
Manitoba .....	3	3	6	—	—	—	3	3	6
Saskatchewan .....	—	—	—	—	—	—	—	—	—
Alberta .....	10	9	19	—	—	—	10	9	19
British Columbia .....	—	—	—	—	—	—	—	—	—
United States .....	92	56	148	70	200	270	162	256	418
<b>Total .....</b>	<b>1,183</b>	<b>1,120</b>	<b>2,303</b>	<b>142</b>	<b>716</b>	<b>858</b>	<b>1,325</b>	<b>1,836</b>	<b>3,161</b>

TABLE 2. Selected Statistics by Gross Vehicle Weight Groups

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
10,000 lbs. and under .....	3	317	165	0.5	51.7	163	99.0
10,001-20,000 lbs. ....	29	2,148	6,998	3.3	242.6	975	13.9
20,001-30,000 lbs. ....	47	2,074	10,139	4.9	214.9	1,264	12.5
30,001-50,000 lbs. ....	2,224	54,749	709,446	13.0	319.0	40,623	5.7
50,001 lbs. and over .....	—	—	—	—	—	—	—
<b>Total .....</b>	<b>2,303</b>	<b>59,288</b>	<b>726,748</b>	<b>12.3</b>	<b>315.5</b>	<b>43,025</b>	<b>5.9</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under .....	21	1,428	866	0.6	40.8		
10,001-20,000 lbs. ....	49	1,726	6,307	3.7	128.3		
20,001-30,000 lbs. ....	252	1,267	7,274	5.7	28.9		
30,001-50,000 lbs. ....	536	7,001	84,076	12.0	156.9		
50,001 lbs. and over .....	—	—	—	—	—		
<b>Total .....</b>	<b>858</b>	<b>11,422</b>	<b>98,523</b>	<b>8.6</b>	<b>114.8</b>		

TABLE 3. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	61	2,561	28,736	11.2	467.9	1,275	4.4
Animals and animal products .....	57	1,895	19,536	10.3	343.5	1,189	6.1
Mine products .....	41	1,003	14,872	14.8	361.6	589	4.0
Forest products .....	37	651	8,191	12.6	219.9	328	4.0
Manufactures and miscellaneous .....	1,343	34,473	418,976	12.2	312.0	24,794	5.9
N.O.S. general freight .....	764	18,705	236,437	12.6	309.5	14,850	6.3
<b>Total .....</b>	<b>2,303</b>	<b>59,288</b>	<b>726,748</b>	<b>12.3</b>	<b>315.5</b>	<b>43,025</b>	<b>5.9</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	95	2,679	28,310	10.6	297.3		
Animals and animal products .....	27	763	6,398	8.4	236.6		
Mine products .....	16	265	3,423	12.9	217.5		
Forest products .....	440	2,022	17,985	8.9	40.8		
Manufactures and miscellaneous .....	274	5,676	42,385	7.5	154.6		
N.O.S. general freight .....	6	17	22	1.3	4.0		
<b>Total .....</b>	<b>858</b>	<b>11,422</b>	<b>98,523</b>	<b>8.6</b>	<b>114.8</b>		

**APPENDIX**  
**Sampling Results**

Type of operation	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average Quebec truck population January 1 — December 31, 1957							
For hire .....	234	1,801	2,193	1,728	2,274	3,851	12,081
Private:							
Intercity .....	7,538	12,613	3,710	2,950	4,822	5,262	36,895
Urban .....	17,500	31,499	6,412	3,677	3,449	3,027	65,564
Farm .....	16,038	14,355	1,776	294	69	3	32,535
<b>Total .....</b>	<b>41,310</b>	<b>60,268</b>	<b>14,091</b>	<b>8,649</b>	<b>10,614</b>	<b>12,143</b>	<b>147,075</b>
Total number of trucks selected in samples							
For hire .....	11	202	340	249	418	870	2,090
Private:							
Intercity .....	406	1,326	565	434	994	1,117	4,842
Urban .....	943	3,306	978	547	842	779	7,395
Farm .....	874	1,511	279	45	23	1	2,733
<b>Total .....</b>	<b>2,234</b>	<b>6,345</b>	<b>2,162</b>	<b>1,275</b>	<b>2,277</b>	<b>2,767</b>	<b>17,060</b>
Number of questionnaires returned completed							
For hire .....	6	111	178	138	233	510	1,176
Private:							
Intercity .....	194	675	236	192	464	531	2,292
Urban .....	455	1,679	405	243	404	351	3,537
Farm .....	474	778	107	12	12	—	1,383
<b>Total .....</b>	<b>1,129</b>	<b>3,243</b>	<b>926</b>	<b>585</b>	<b>1,113</b>	<b>1,392</b>	<b>8,388</b>
Number of sampled trucks reported not in use during survey week							
For hire .....	1	27	70	52	79	159	388
Private:							
Intercity .....	71	240	174	122	278	293	1,178
Urban .....	167	611	310	157	223	209	1,677
Farm .....	189	359	106	17	5	1	677
<b>Total .....</b>	<b>428</b>	<b>1,237</b>	<b>660</b>	<b>348</b>	<b>585</b>	<b>662</b>	<b>3,920</b>
Number of questionnaires returned incomplete and unusable							
For hire .....	3	37	42	26	48	87	243
Private:							
Intercity .....	108	265	105	75	159	177	889
Urban .....	243	650	175	93	135	121	1,417
Farm .....	160	257	44	11	4	—	476
<b>Total .....</b>	<b>514</b>	<b>1,209</b>	<b>366</b>	<b>205</b>	<b>346</b>	<b>385</b>	<b>3,025</b>
Number of questionnaires not returned (non-respondents)							
For hire .....	1	27	50	33	58	114	283
Private:							
Intercity .....	33	146	50	45	93	116	483
Urban .....	78	366	88	54	80	98	764
Farm .....	51	117	22	5	2	—	197
<b>Total .....</b>	<b>163</b>	<b>656</b>	<b>210</b>	<b>137</b>	<b>233</b>	<b>328</b>	<b>1,727</b>





CATALOGUE No.  
**53-209**  
ANNUAL

Canada. Statistics, Bureau of



**MOTOR TRANSPORT TRAFFIC**  
**PROVINCE OF QUEBEC**  
**1958**

*Published by Authority of*  
The Honourable Gordon Churchill, Minister of Trade and Commerce

**DOMINION BUREAU OF STATISTICS**  
Public Finance and Transportation Division  
Transportation and Public Utilities Section

February, 1960  
8504-559

Price 50 cents

Reports Published by the  
Public Finance and Transportation Division  
dealing with

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PROVINCE OF QUEBEC  
JANUARY 1 — DECEMBER 31, 1958

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

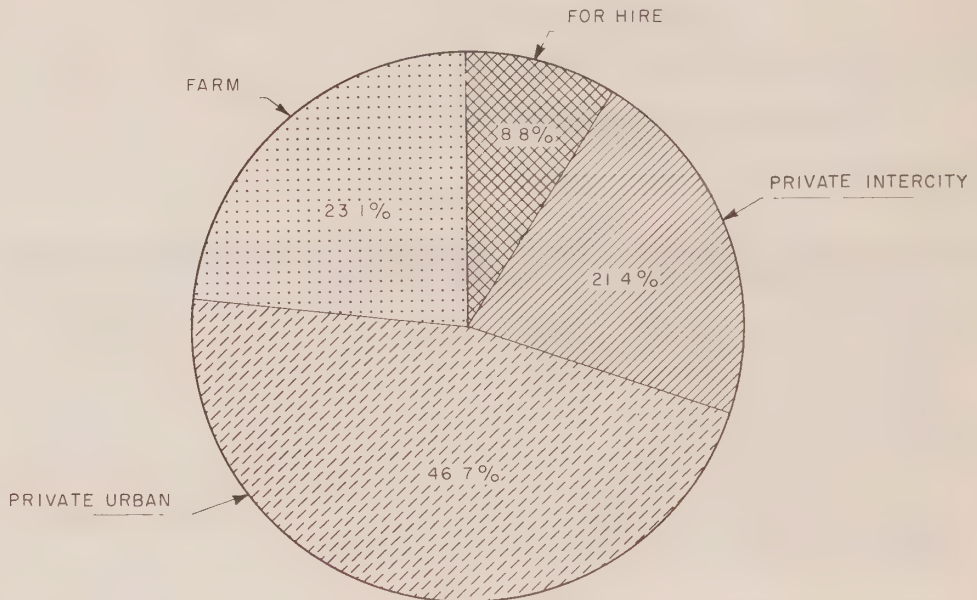
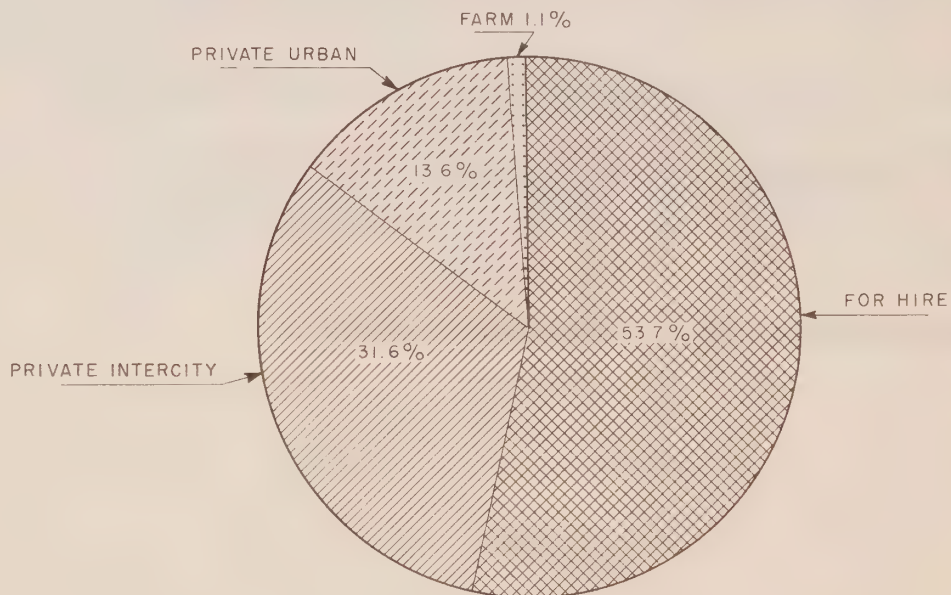


CHART-2

NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1958 annual report of motor transport traffic in the Province of Quebec is based upon a sample of approximately 12 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations, the sample was selected in four quarterly segments with approximately one-fourth of the total selected each quarter. Beginning in the second quarter of 1958, each quarterly sample was spread over three survey weeks with one-third of the sample being used for a seven day period, Sunday through Saturday, per month. Previously each quarterly sample was concentrated in one survey week so that the total sample for the year was spread over only four weeks. Statistics compiled for 1958, therefore, have been based on surveys spread over ten weeks. As a result a much better representation of truck traffic has been obtained.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight groups. The four functional categories used are: for-hire, private intercity, private urban and farm. For-hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated predominantly within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

For-hire and farm trucks ("L" and "N" licences) are the only classes to be registered separately in Quebec. Privately operated vehicles in the sample are classified as "intercity" and "urban" on the basis of replies to the questionnaires.

Further information on the history and the organization of motor transport traffic surveys may be found in the report entitled "Motor Transport Traffic Statistics, National Estimates, 1957".

### Expansion of Survey Results

The distribution of sample vehicles by gross vehicle weight groups and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample

results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

### Review of Survey Results

Excluding vehicles which do not perform transportation services, the average number of trucks registered in Quebec during the year was 153,465. Of these, 13,461 or 8.8 per cent were for-hire carriers; 32,818 or 21.4 per cent were private intercity vehicles; 71,685 or 46.7 per cent were private vehicles operating predominantly within urban areas; and 35,501 or 23.1 per cent were farm trucks.

In the tables presented herein blanks appear in a number of weight classifications where no vehicles were chosen in any of the quarterly sample selections. It does not necessarily follow that there are no vehicles in the province belonging to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed by all Quebec registered trucks both inside and outside the province.

Although comprising only 8.8 per cent of Quebec's truck population, for-hire vehicles accounted for 53.7 per cent of total net ton miles and 24.2 per cent of total tons of goods carried during 1958. This results from the high average yearly mileage of these trucks, 21,700 as compared with 9,300 miles for all trucks, and from the heavy average load carried (9.1 tons as compared with 4.6 for all trucks). The heavier loads carried by for-hire



trucks are to be expected since slightly less than half of these vehicles have a gross weight of over 10 tons. The predominance of heavier vehicles in the for-hire class also explains the low miles per gallon of gasoline estimate of 6.9 as compared with a ratio of 9.5 for all trucks.

Some trucks in Quebec are used essentially for personal transportation. Such vehicles account for about 6 per cent of the total mileage travelled by Quebec registered trucks.

## Section II: Traffic Within the Province

This section presents estimates of traffic performed by Quebec registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for-hire vehicles accumulated 45.9 per cent and private intercity 8.3 per cent of their total net ton miles outside of Quebec.

## Section III: Intraprovincial Traffic

This section includes statistics of for-hire and private intercity operations originating and terminating entirely inside the boundaries of Quebec.

It is estimated that of the total net ton miles performed by both for-hire and private intercity trucks, manufactured products accounted for 41.3 and 43.4 per cent respectively of the commodities carried.

## Section IV: Interprovincial and International Traffic

Estimates indicate that over four-fifths of the total tons of goods carried by Quebec registered for-hire trucks in interprovincial and international traffic was transferred to or from Ontario; and, that more than two-fifths of the total net ton miles performed and one-third of the revenue earned by for-hire trucks was in interprovincial and international traffic.

## Appendix 1

During the year survey questionnaires were sent to the owners or operators of 17,829 trucks. Of this number 8,260 questionnaires were returned completed and 3,714 trucks were reported not used during the survey week. In addition 3,604 questionnaires were returned with insufficient information. Non-response totalled 2,251 or 12.6 per cent.

## Reliability of Motor Transport Traffic Statistics

### (a) Non-Sampling Variability

A certain amount of variance in motor transport traffic statistics will arise from non-sampling factors including improper reporting by the respondent due to misinterpretation of questions or deliberate mis-statements. Also, the respondent may not keep accurate records of traffic performed. The effect of these factors cannot be measured without a further follow-up and re-enumeration of the statistics reported.

### (b) Sampling Variability

Estimates of the sampling error have, however, been calculated for the following class totals (see Appendix 2): (1) mileage travelled (2) weight of

goods carried (3) net ton miles and (4) revenue earned. These calculations have been made using a confidence limit of two standard deviations (i.e. allowing 95 out of 100 chances that the stated range contains the true value). The stability of the data varies according to the type of statistics involved and the number of trucks reporting in each category. Hence statistics of class totals are considered more reliable than those for any particular weight group. Of the various types of data presented, the most stable statistics were "total mileage travelled" while variability seemed greatest for "weight of goods carried". This is understandable when we consider that trucks may travel with little or no load so that there is a naturally wide range of weights carried.

December 18, 1959.

**SECTION I. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE  
JANUARY 1—DECEMBER 31, 1958**

**TABLE 1. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled.....	'000	292,167	465,507	539,731	136,383	1,433,788
Average yearly mileage per truck .....		21,700	14,200	7,500	3,800	9,300
Average distance each ton was carried .....		70.7	30.1	10.6	19.3	31.8
Percentage of total mileage travelled empty .....		24.5	47.0	42.1	72.0	43.0
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	33,415	48,811	51,034	10,143	143,403
Miles per gallon of gasoline.....		6.9	9.4	10.5	13.4	9.5
Total gallons of diesel oil consumed .....	'000	10,035	1,048	559	—	11,642
Miles per gallon of diesel oil .....		6.2	6.2	5.2	—	6.1
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel.....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	28,398	39,152	47,661	2,102	117,313
Average weight carried <sup>1</sup> .....	ton	9.1	4.8	1.6	1.1	4.6
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	2,006,747	1,179,374	507,302	40,650	3,734,073
Average net ton miles per truck.....		149,100	35,900	7,100	1,100	24,300
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	3,445,718	2,621,470	1,485,990	180,596	7,733,774
Average capacity ton miles per truck .....		256,000	79,900	20,700	5,100	50,400
Percentage of capacity utilized.....		58.2	45.0	34.1	22.5	48.3
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	3,939,690	2,870,989	1,939,875	297,954	9,048,508
Average gross ton miles per truck .....		292,700	87,500	27,100	8,400	59,000
<b>Revenue:</b>						
Total revenue .....	\$'000	157,791	—	—	—	—
Revenue per ton mile.....	¢	7.9	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	54.0	—	—	—	—
Average revenue per truck .....	\$	11,700	—	—	—	—
Average annual population .....		13,461	32,818	71,685	35,501	153,465

**TABLE 2. All Trucks by Gross Vehicle Weight Groups**

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
<b>Mileage:</b>							
Total mileage travelled..... '000	262,576	498,049	115,982	100,590	148,373	308,218	1,433,788
Average yearly mileage per truck .....	6,100	7,800	8,500	10,600	13,400	25,000	9,300
Average distance each ton was carried.....	26.1	21.4	14.8	18.2	23.2	42.0	31.8
Percentage of total mileage travelled empty .....	61.9	48.3	33.7	33.3	35.0	28.6	43.0
<b>Fuel:</b>							
Total gallons of gasoline consumed..... '000	17,460	41,020	12,286	12,488	19,846	40,303	143,403
Miles per gallon of gasoline.....	15.0	12.1	9.4	8.1	7.2	6.0	9.5
Total gallons of diesel oil consumed..... '000	—	—	—	—	718	10,924	11,642
Miles per gallon of diesel oil.....	—	—	—	—	7.6	6.0	6.1
Total gallons of other fuel consumed..... '000	—	—	—	—	—	—	—
Miles per gallon of other fuel.....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried..... '000	1,471	7,474	10,620	12,240	23,294	62,214	117,313
Average weight carried <sup>1</sup> ..... ton	0.4	0.6	2.0	3.3	5.6	11.9	4.6
<b>Net ton miles:</b>							
Total net ton miles performed..... '000	38,431	160,005	157,355	222,373	540,250	2,615,659	3,734,073
Average net ton miles per truck.....	900	2,500	11,500	23,500	48,900	212,200	24,300
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> ..... '000	219,090	636,950	387,424	519,670	1,188,166	4,782,474	7,733,774
Average capacity ton miles per truck.....	5,100	10,000	28,300	54,900	107,700	388,000	50,400
Percentage of capacity utilized.....	17.5	25.1	40.6	42.8	45.5	54.7	48.3
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> ..... '000	428,027	1,166,136	539,416	626,251	1,216,458	5,072,220	9,048,508
Average gross ton miles per truck.....	9,900	18,300	39,400	66,100	110,200	411,500	59,000
Average annual population.....	43,164	63,759	13,708	9,470	11,037	12,327	153,465

TABLE 3. Selected Statistics by Gross Vehicle Weight Groups

	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lbs. and under .....	6,850	56,628	124,903	2.2	18.2	29,965	24.0
20,001- 30,000 lbs. ....	4,907	31,507	206,349	6.5	42.1	21,726	10.5
30,001-50,000 lbs. ....	16,641	132,310	1,675,495	12.7	100.7	106,100	6.3
50,001 lbs. and over .....	—	—	—	—	—	—	—
Total .....	28,398	220,445	2,006,747	9.1	70.7	157,791	7.9
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under .....	1,955	98,202	70,612	—	0.7	—	36.1
10,001-20,000 lbs. ....	5,846	42,905	135,347	—	3.2	—	23.2
20,001-30,000 lbs. ....	8,890	41,042	229,724	—	5.6	—	25.8
30,001-50,000 lbs. ....	22,461	64,660	743,691	—	11.5	—	33.1
50,001 lbs. and over .....	—	—	—	—	—	—	—
Total .....	39,152	246,809	1,179,374	—	4.8	—	30.1

**SECTION II. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS WITHIN THE PROVINCE  
JANUARY 1 - DECEMBER 31, 1958**

TABLE 1. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	209,552	447,988	539,731	136,383	1,333,654
Average yearly mileage per truck .....		15,600	13,700	7,500	3,800	8,700
Average distance each ton was carried .....		39.0	27.9	10.6	19.3	23.3
Percentage of total mileage travelled empty .....		29.5	47.3	42.1	72.0	44.9
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	25,101	46,493	51,034	10,143	132,771
Miles per gallon of gasoline .....		7.3	9.5	10.5	13.4	9.8
Total gallons of diesel oil consumed .....	'000	4,019	722	559	—	5,300
Miles per gallon of diesel oil .....		6.3	6.1	5.2	—	6.2
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	27,796	38,755	47,661	2,102	116,314
Average weight carried <sup>1</sup> .....	ton	7.3	4.6	1.6	1.1	3.7
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	1,085,124	1,082,049	507,302	40,650	2,715,125
Average net ton miles per truck .....		80,600	33,000	7,100	1,100	17,700
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	2,078,059	2,420,798	1,485,990	180,596	6,165,443
Average capacity ton miles per truck .....		154,400	73,800	20,700	5,100	40,200
Percentage of capacity utilized .....		52.2	44.7	34.1	22.5	44.0
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	2,283,580	2,644,431	1,939,875	297,954	7,165,840
Average gross ton miles per truck .....		169,600	80,600	27,100	8,400	46,700
<b>Revenue:</b>						
Total revenue .....	\$'000	106,009	—	—	—	—
Revenue per ton mile .....	¢	9.8	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	50.6	—	—	—	—
Average revenue per truck .....	\$	7,900	—	—	—	—
Average annual population .....		13,461	32,818	71,685	35,501	153,465

See footnotes page 9.



TABLE 2. All Trucks by Gross Vehicle Weight Groups

	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,001-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
<b>Mileage:</b>							
Total mileage travelled ..... '000	261,283	497,143	113,792	98,212	139,452	223,772	1,333,654
Average yearly mileage per truck .....	6,100	7,800	8,300	10,400	12,600	18,200	8,700
Average distance each ton was carried .....	26.0	21.3	14.5	17.8	20.6	27.2	23.3
Percentage of total mileage travelled empty .....	61.9	48.3	33.6	33.0	36.1	34.2	44.9
<b>Fuel:</b>							
Total gallons of gasoline consumed ..... '000	17,359	40,947	12,070	12,132	18,774	31,489	132,771
Miles per gallon of gasoline .....	15.1	12.1	9.4	8.1	7.2	6.2	9.8
Total gallons of diesel oil consumed ..... '000	—	—	—	—	462	4,838	5,300
Miles per gallon of diesel oil .....	—	—	—	—	7.6	6.0	6.2
Total gallons of other fuel consumed ..... '000	—	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried ..... '000	1,471	7,474	10,614	12,227	23,175	61,353	116,314
Average weight carried <sup>1</sup> ..... ton	0.4	0.6	2.0	3.3	5.4	11.3	3.7
<b>Net ton miles:</b>							
Total net ton miles performed ..... '000	38,299	159,420	153,950	217,562	478,022	1,667,872	2,715,125
Average net ton miles per truck .....	900	2,500	11,200	23,000	43,300	135,300	17,700
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> ..... '000	218,153	635,781	379,429	504,902	1,097,945	3,329,233	6,165,443
Average capacity ton miles per truck .....	5,100	10,000	27,700	53,300	99,500	270,100	40,200
Percentage of capacity utilized .....	17.6	25.1	40.6	43.1	43.5	50.1	44.0
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> ..... '000	425,753	1,163,482	528,629	593,640	1,119,075	3,335,261	7,165,840
Average gross ton miles per truck .....	9,900	18,200	38,600	62,700	101,400	270,600	46,700
Average annual population .....	43,164	63,759	13,708	9,470	11,037	12,327	153,465

<sup>1</sup> Ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

### SECTION III. INTRAPROVINCIAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS JANUARY 1 - DECEMBER 31, 1958

TABLE 1. Selected Statistics of Intercity Traffic by Gross Vehicle Weight Groups

	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lbs. and under .....	1,072	17,287	50,477	2.9	47.1	7,462	14.8
20,001-30,000 lbs. ....	2,076	14,811	93,190	6.3	44.9	9,913	10.6
30,001-50,000 lbs. ....	6,749	46,528	584,093	12.6	86.6	40,987	7.0
50,001 lbs and over .....	—	—	—	—	—	—	—
<b>Total</b> .....	<b>9,897</b>	<b>78,626</b>	<b>727,760</b>	<b>9.3</b>	<b>73.5</b>	<b>58,362</b>	<b>8.0</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lbs. and under .....	1,667	90,109	63,120	—	0.7	—	37.9
10,001-20,000 lbs. ....	5,511	38,423	122,941	—	3.2	—	22.3
20,001-30,000 lbs. ....	7,571	36,860	209,074	—	5.7	—	27.6
30,001-50,000 lbs. ....	19,422	52,357	591,576	—	11.3	—	30.5
50,001 lbs. and over .....	—	—	—	—	—	—	—
<b>Total</b> .....	<b>34,171</b>	<b>217,749</b>	<b>986,711</b>	<b>4.5</b>	<b>28.9</b>		

TABLE 2. Selected Statistics of Intercity Traffic by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	263	2,486	18,495	7.4	70.3	2,054	11.1
Animals and animal products .....	1,139	12,106	65,788	5.4	57.8	5,797	8.8
Mine products .....	2,019	5,497	69,979	12.7	34.7	4,816	6.9
Forest products .....	398	3,594	42,608	11.9	106.9	2,467	5.8
Manufactures and miscellaneous .....	3,526	29,000	300,751	10.4	85.3	23,769	7.9
N.O.S. general freight .....	2,552	25,943	230,139	8.9	90.2	19,459	8.5
<b>Total .....</b>	<b>9,897</b>	<b>78,626</b>	<b>727,760</b>	<b>9.3</b>	<b>73.5</b>	<b>58,362</b>	<b>8.0</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	1,049	11,319	48,797	4.3	46.5		
Animals and animal products .....	1,173	24,518	72,965	3.0	62.2		
Mine products .....	15,755	21,124	198,424	9.4	12.6		
Forest products .....	3,566	18,715	152,182	8.1	42.7		
Manufactures and miscellaneous .....	9,408	115,110	428,486	3.7	45.5		
N.O.S. general freight .....	3,220	26,963	85,857	3.2	26.7		
<b>Total .....</b>	<b>34,171</b>	<b>217,749</b>	<b>986,711</b>	<b>4.5</b>	<b>28.9</b>		

SECTION IV. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS  
JANUARY 1 – DECEMBER 31, 1958

TABLE 1. Tons of Goods Carried by Province of Origin and Destination

Origin or destination	For hire			Private intercity			Total		
	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total
	'000 tons								
Newfoundland .....	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—
Nova Scotia .....	2	2	4	—	—	—	2	2	4
New Brunswick .....	24	38	62	—	—	—	24	38	62
Ontario .....	1,051	1,172	2,223	273	457	730	1,324	1,629	2,953
Manitoba .....	—	—	—	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—	—	—	—
Alberta .....	28	38	66	—	—	—	28	38	66
British Columbia .....	—	4	4	—	—	—	—	4	4
Yukon and North West Territories .....	—	—	—	—	—	—	—	—	—
United States .....	148	131	279	4	272	276	152	403	555
<b>Total .....</b>	<b>1,253</b>	<b>1,385</b>	<b>2,638</b>	<b>277</b>	<b>729</b>	<b>1,006</b>	<b>1,530</b>	<b>2,114</b>	<b>3,644</b>

TABLE 2. Selected Statistics by Commodity Groups

Commodity classification	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	91	1,510	22,164	14.7	241.4	1,395	6.3
Animals and animal products .....	131	6,902	87,462	12.7	668.3	2,882	3.3
Mine products .....	15	437	3,593	8.2	239.3	233	6.5
Forest products.....	96	679	12,193	17.9	127.2	802	6.6
Manufactures and miscellaneous .....	1,405	37,654	448,918	11.9	319.5	29,819	6.6
N.O.S. general freight .....	900	21,055	282,842	13.4	314.3	17,503	6.2
<b>Total.....</b>	<b>2,638</b>	<b>68,237</b>	<b>857,172</b>	<b>12.6</b>	<b>324.9</b>	<b>52,634</b>	<b>6.1</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	50	1,062	15,435	14.5	306.8		
Animals and animal products .....	7	526	628	1.2	87.6		
Mine products .....	51	424	5,251	12.4	102.5		
Forest products.....	356	2,916	29,010	9.9	81.6		
Manufactures and miscellaneous .....	450	6,132	58,305	9.5	129.6		
N.O.S. general freight .....	92	2,207	15,346	7.0	166.7		
<b>Total.....</b>	<b>1,006</b>	<b>13,267</b>	<b>123,975</b>	<b>9.3</b>	<b>123.3</b>		

## APPENDIX I

Type of operation	A. Population						
	0-2½ tons 0-5,000 lbs.	2½-5 tons 5,001-10,000 lbs.	5-7½ tons 10,000-15,000 lbs.	7½-10 tons 15,001-20,000 lbs.	10-15 tons 20,001-30,000 lbs.	Over 15 tons 30,001 lbs. and over	Total
Estimated average Quebec truck population January 1—December 31, 1958							
For hire .....	252	2,018	2,640	2,200	2,271	4,080	13,461
Private:							
Intercity .....	7,323	11,702	2,471	2,278	4,287	4,757	32,818
Urban .....	17,911	34,334	6,950	4,624	4,376	3,490	71,685
Farm .....	17,678	15,705	1,647	368	103	—	35,501
<b>Total .....</b>	<b>43,164</b>	<b>63,759</b>	<b>13,708</b>	<b>9,470</b>	<b>11,037</b>	<b>12,327</b>	<b>153,465</b>
	B. Survey Response						
	Total number of trucks selected in samples	Number of questionnaires returned completed	Number of sampled trucks reported not in use during survey week	Number of questionnaires not returned or returned incomplete and unusable			
For hire .....	2,468	1,332	463	673			
Private:							
Intercity .....	4,396	2,044	980	1,372			
Urban .....	8,364	3,945	1,668	2,751			
Farm .....	2,601	939	603	1,059			
<b>Total .....</b>	<b>17,829</b>	<b>8,260</b>	<b>3,714</b>	<b>5,855</b>			



## APPENDIX 2. Reliability of Motor Transport Traffic Statistics

	Number of trucks reporting (1)	Survey estimates (2)	Sampling variability (Two standard deviations)		Range (Col. 2 plus and minus col. 3)	
			Size (3)	Per cent of col. 2 (4)	Lower limit (5)	Upper limit (6)
		'000	'000		'000	'000
<b>A. Traffic performed within the province<sup>1</sup></b>						
Total mileage travelled						
		miles	miles		miles	miles
For hire .....	1,306	209,552	8,382	4.0	201,170	217,934
Private:						
Intercity .....	2,027	447,988	14,336	3.2	433,652	462,324
Urban .....	3,945	539,731	14,033	2.6	525,698	553,764
Farm .....	939	136,383	9,001	6.6	127,382	145,384
<b>Total</b> .....	<b>8,217</b>	<b>1,333,654</b>	<b>24,006</b>	<b>1.8</b>	<b>1,309,648</b>	<b>1,357,660</b>
Weight of goods carried						
		tons	tons		tons	tons
For hire .....	1,297	27,796	2,335	8.4	25,461	30,131
Private:						
Intercity .....	1,740	38,755	3,410	8.8	35,345	42,165
Urban .....	3,085	47,661	3,527	7.4	44,134	51,188
Farm .....	481	2,102	513	24.4	1,589	2,615
<b>Total</b> .....	<b>6,603</b>	<b>116,314</b>	<b>5,118</b>	<b>4.4</b>	<b>111,196</b>	<b>121,432</b>
Net ton miles						
		net ton miles	net ton miles		net ton miles	net ton miles
For hire .....	1,297	1,085,124	80,299	7.4	1,004,825	1,165,423
Private:						
Intercity .....	1,740	1,082,049	64,923	6.0	1,017,126	1,146,972
Urban .....	3,085	507,302	19,277	3.8	488,025	526,579
Farm .....	481	40,650	7,642	18.8	33,008	48,292
<b>Total</b> .....	<b>6,603</b>	<b>2,715,125</b>	<b>103,175</b>	<b>3.8</b>	<b>2,611,950</b>	<b>2,818,300</b>
Revenue earned						
		\$	\$		\$	\$
For hire .....	1,297	106,009	5,937	5.6	100,072	111,946
<b>B. Interprovincial and international traffic</b>						
Weight of goods carried						
		tons	tons		tons	tons
For hire .....	180	2,638	285	10.8	2,353	2,923
Private:						
Intercity .....	83	1,006	223	22.2	783	1,229
Net ton miles						
		net ton miles	net ton miles		net ton miles	net ton miles
For hire .....	180	857,172	106,289	12.4	750,883	963,461
Private:						
Intercity .....	83	123,975	24,051	19.4	99,924	148,026

<sup>1</sup> Estimates for traffic "inside and outside the province" are considered to be more reliable while the estimates for "intraprovincial" traffic should be equally reliable.

**Note:** The chances are 95 out of 100 that the range (sample estimate  $\pm$  sampling variability) contains the true value. Consider "total mileage travelled" by for-hire trucks. It can be assumed that the computed figure, 209,552,000 miles, will not be more than 8,382,000 miles (plus or minus 4.0 per cent of 209,552,000) away from the "true" value in 95 out of 100 cases. In other words, the chances are 95 out of 100 that the true value will fall within a range of 201,170,000 to 217,934,000.

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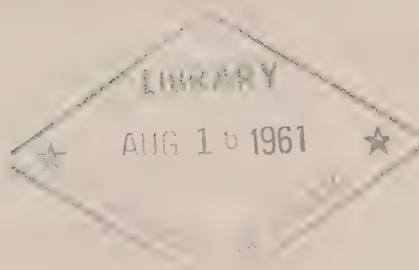
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ANNUAL



CANADA

MOTOR TRANSPORT TRAFFIC  
PROVINCE OF QUEBEC  
1959



*Published by Authority of*  
The Honourable George Hees, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS  
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PROVINCE OF QUEBEC  
JANUARY 1-DECEMBER 31, 1959

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

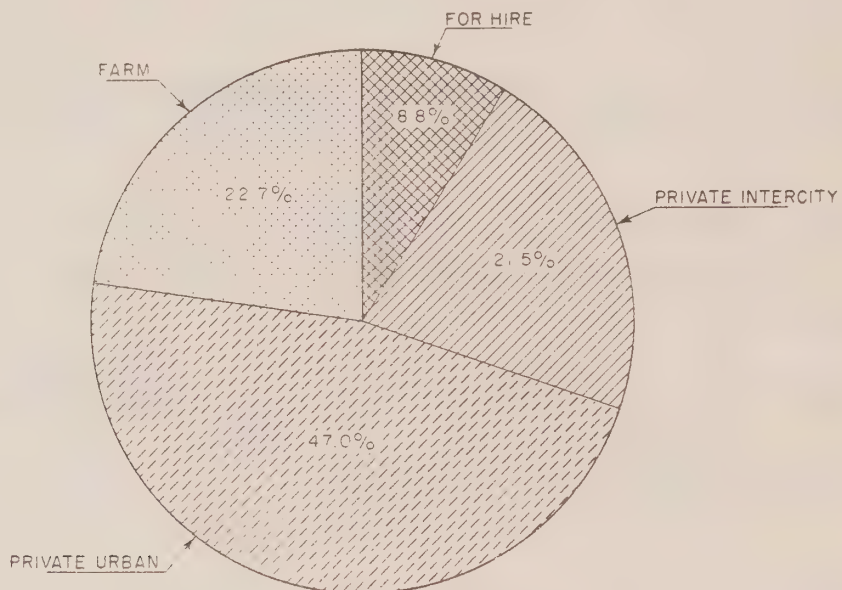
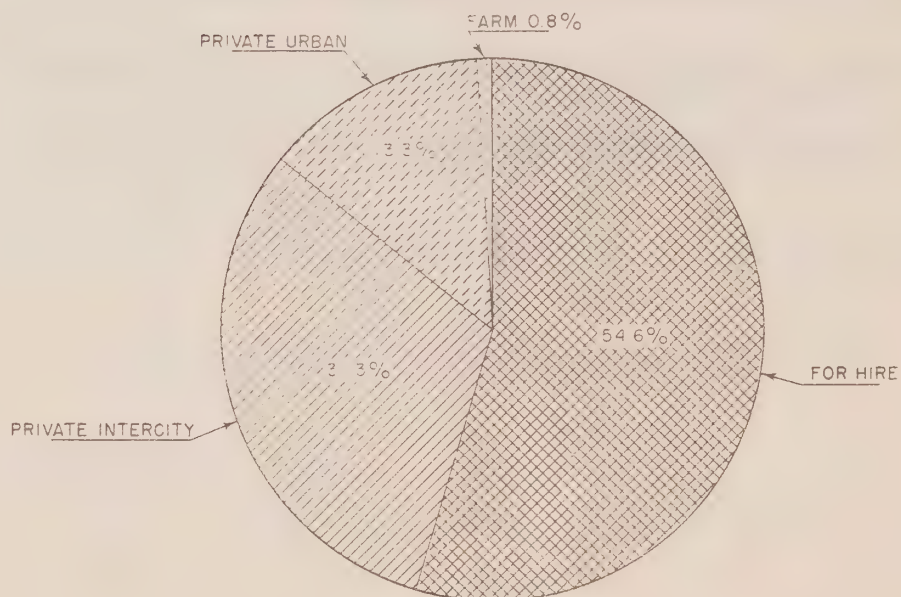


CHART-2

NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1959 annual report of motor transport traffic in the Province of Quebec is based upon a sample of approximately 11 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In this report vehicles have been classified into the four functional categories as follows:

For hire	— "L" licensed vehicles operated in intercity service and/or urban areas.
Private intercity	— "F" licensed vehicles operated beyond urban areas.
Private urban	— "F" licensed vehicles operated only within urban areas.
Farm	— "N" licensed vehicles.

Since Quebec motor vehicles are licensed on a tare weight basis, it was necessary to estimate equivalent gross vehicle weights to provide comparability with other annual provincial reports. For each truck in the sample the gross vehicle weight was estimated from the recorded tare weight and either the estimated carrying capacity or the weight of the heaviest load carried. The gross vehicle weight of each tractor-trailer combination was estimated from the tare weight of the tractor, the estimated tare weight of the trailer plus the weight of the heaviest load carried. It is emphasized that this method provides only approximately equivalent gross vehicle weights and therefore exact provincial comparability of the weight group classification cannot be assured.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957 and 1958.

### Expansion of Survey Results

Prior to 1959 the distribution of sample vehicles by gross vehicle weight group and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

To improve the accuracy of the provincial estimates, it was decided to use, for 1959, the peak registration population in calculating the blow-up factor rather than the population as at four different periods during the year.

Unfortunately time has not permitted calculations of the reliability of these estimates similar to those published in the 1958 report. It should also be noted that the section dealing exclusively with trips originating and terminating within the province has been omitted from this report for purposes of simplification.

### Review of Survey Results

The estimated population of trucks performing transportation services in Quebec during the year rose 2.8 per cent to 157,764 from 153,465 in 1958. Of these 13,968 or 8.8 per cent were for hire trucks; 33,927 or 21.5 per cent were private intercity vehicles; 74,109 or 47.0 per cent were private vehicles operating wholly within urban areas; and 35,760 or 22.7 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even



where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Quebec registered trucks.

Although comprising only 8.8 per cent of Quebec's truck population, for hire vehicles accounted for 54.6 per cent of the total net ton miles and 25.2 per cent of the total tons of goods carried during 1959. This results from the high average yearly mileage of these trucks, 20,900 miles as compared with 9,000 miles for all trucks, and from the heavy average load carried of 9.1 tons compared to 4.5 tons for all trucks. Since almost one half of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline, 6.5 compared with 9.4 for all trucks.

It is estimated that 8 per cent of the total net ton miles performed by Quebec registered for hire trucks was in urban operations.

Some trucks in Quebec under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 7 per cent of the total mileage travelled by Quebec registered trucks.

### Section II: Traffic Within the Province

This section presents estimates of traffic performed by Quebec registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 48.8 per cent and private intercity 10.3 per cent of their total net ton miles outside Quebec.

### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately one third of the total net ton miles performed and one fourth of the revenue earned by these vehicles. Over four fifths of the total tons of goods carried in this type of traffic by Quebec registered for hire trucks was transported to or from Ontario and one tenth to or from the United States.

### Appendix

During the year survey questionnaires were sent to the owners or operators of 17,974 trucks. Of this number 7,173 were returned completed and

4,209 trucks were reported not used during the survey week. The remaining 6,592 were either returned incomplete and unusable or not returned at all.

June 15, 1961.

**SECTION I. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE  
JANUARY 1 - DECEMBER 31, 1959**

**TABLE 1. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	291,476	477,623	532,100	113,330	1,414,529
Average yearly mileage per truck .....		20,900	14,100	7,200	3,200	9,000
Average distance each ton was carried .....		64.7	25.7	10.7	15.6	29.9
Percentage of total mileage travelled empty .....		20.9	46.6	40.7	59.6	40.1
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	32,697	48,982	48,660	8,226	138,565
Miles per gallon of gasoline .....		6.5	9.3	10.8	13.8	9.4
Total gallons of diesel oil consumed .....	'000	13,292	3,459	1,158	—	17,909
Miles per gallon of diesel oil .....		5.9	6.1	5.6	—	5.9
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	32,500	46,827	47,537	1,906	128,770
Average weight carried <sup>1</sup> .....	ton	9.1	4.7	1.6	0.7	4.5
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	2,101,379	1,204,353	510,079	29,758	3,845,569
Average net ton miles per truck .....		150,400	35,500	6,900	800	24,400
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	3,433,137	2,874,861	1,463,850	139,516	7,911,364
Average capacity ton miles per truck .....		245,800	84,700	19,800	3,900	50,100
Percentage of capacity utilized .....		61.2	41.9	34.8	21.3	48.6
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	3,944,723	3,128,046	1,957,269	234,111	9,264,149
Average gross ton miles per truck .....		282,400	92,200	26,400	6,500	58,700
<b>Revenue:</b>						
Total revenue .....	\$'000	157,996	—	—	—	—
Revenue per ton mile .....	¢	7.5	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	54.2	—	—	—	—
Average revenue per truck .....	\$	11,300	—	—	—	—
Estimated annual population .....		13,968	33,927	74,109	35,760	157,764

**TABLE 2. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	242,530	506,346	108,453	88,077	143,008	326,115
Average yearly mileage per truck .....		5,500	7,700	7,700	9,000	12,500	25,600
Average distance each ton was carried .....		15.7	20.6	16.4	14.4	15.9	43.2
Percentage of total mileage travelled empty .....		58.6	44.0	30.5	31.1	36.8	27.4
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	16,182	40,843	11,696	11,246	20,351	38,247
Miles per gallon of gasoline .....		15.0	12.4	9.3	7.8	7.0	5.8
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	17,909
Miles per gallon of diesel oil .....		—	—	—	—	—	5.9
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	1,748	7,802	9,907	13,448	30,874	64,991
Average weight carried <sup>1</sup> .....	ton	0.3	0.6	2.2	3.2	5.4	11.9
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	27,493	160,399	162,060	193,454	491,463	2,810,700
Average net ton miles per truck .....		600	2,400	11,500	19,800	43,000	220,300
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	196,346	658,881	391,233	474,642	1,210,936	4,979,326
Average capacity ton miles per truck .....		4,400	10,100	27,700	48,500	106,100	390,200
Percentage of capacity utilized .....		14.0	24.3	41.4	40.8	40.6	56.4
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	389,513	1,179,526	519,467	533,260	1,160,198	5,482,185
Average gross ton miles per truck .....		8,800	18,000	36,700	54,500	101,600	429,600
Estimated annual population .....		44,155	65,506	14,137	9,789	11,417	12,760

See footnotes at end of Table 5, page 9.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under .....	7,528	60,453	136,520	2.3	18.1	38,790	28.4
20,001-30,000 lb. ....	7,407	26,364	140,544	5.3	19.0	18,402	13.1
30,001-50,000 lb. ....	17,565	143,755	1,824,315	12.7	104.0	100,804	5.5
50,001 lb. and over .....	—	—	—	—	—	—	—
<b>Totals</b> .....	<b>32,500</b>	<b>230,572</b>	<b>2,101,379</b>	<b>9.1</b>	<b>64.7</b>	<b>157,996</b>	<b>7.5</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	1,928	110,844	50,636	0.5	26.3		
10,001-20,000 lb. ....	7,086	35,523	116,969	3.3	16.5		
20,001-30,000 lb. ....	12,994	41,081	258,169	6.3	19.9		
30,001-50,000 lb. ....	24,819	67,737	778,579	11.5	31.4		
50,001 lb. and over .....	—	—	—	—	—		
<b>Totals</b> .....	<b>46,827</b>	<b>255,185</b>	<b>1,204,353</b>	<b>4.7</b>	<b>25.7</b>		

SECTION II. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS WITHIN THE PROVINCE  
JANUARY 1 — DECEMBER 31, 1959

TABLE 4. All Trucks by Type of Operation

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	209,739	451,893	532,100	113,330	1,307,062
Average yearly mileage per truck .....		15,000	13,300	7,200	3,200	8,300
Average distance each ton was carried .....		33.6	23.3	10.7	15.6	21.1
Percentage of total mileage travelled empty .....		26.3	47.0	40.7	59.6	42.2
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	26,278	46,462	48,660	8,226	129,626
Miles per gallon of gasoline .....		6.9	9.4	10.8	13.8	9.7
Total gallons of diesel oil consumed .....	'000	5,006	2,764	1,158	—	8,928
Miles per gallon of diesel oil .....		5.8	5.8	5.6	—	5.8
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	32,010	46,406	47,537	1,906	127,859
Average weight carried <sup>1</sup> .....	ton	7.0	4.5	1.6	0.7	3.6
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	1,075,277	1,079,814	510,079	29,758	2,694,928
Average net ton miles per truck .....		76,900	31,800	6,900	800	17,100
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	2,093,949	2,632,153	1,463,850	139,516	6,329,468
Average capacity ton miles per truck .....		149,800	77,600	19,800	3,900	40,100
Percentage of capacity utilized .....		51.4	41.0	34.8	21.3	42.6
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	2,369,138	2,846,304	1,957,269	234,111	7,406,822
Average gross ton miles per truck .....		169,500	83,900	26,400	6,500	46,900
<b>Revenue:</b>						
Total revenue .....	\$'000	120,635	—	—	—	—
Revenue per ton mile .....	¢	10.6	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	54.6	—	—	—	—
Average revenue per truck .....	\$	8,200	—	—	—	—
Estimated annual population .....		13,968	33,927	74,109	35,760	157,764

See footnotes at end of Table 5, page 9.



TABLE 5. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled ..... '000	239,657	502,073	108,133	87,161	138,023	232,015	1,307,062
Average yearly mileage per truck .....	5,400	7,700	7,600	8,900	12,100	18,200	8,300
Average distance each ton was carried .....	15.5	20.5	16.3	14.2	15.5	26.2	21.1
Percentage of total mileage travelled empty .....	59.1	43.8	30.6	30.9	36.7	34.1	42.2
<b>Fuel:</b>							
Total gallons of gasoline consumed ..... '000	15,983	40,501	11,660	11,120	19,649	30,713	129,626
Miles per gallon of gasoline .....	15.0	12.4	9.3	7.8	7.0	5.9	9.7
Total gallons of diesel oil consumed ..... '000	—	—	—	—	—	8,928	8,928
Miles per gallon of diesel oil .....	—	—	—	—	—	5.8	5.8
Total gallons of other fuel consumed ..... '000	—	—	—	—	—	—	—
Miles per gallon of other fuel .....	—	—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried ..... '000	1,734	7,802	9,907	13,448	30,714	64,254	127,859
Average weight carried <sup>1</sup> ..... ton	0.3	0.6	2.2	3.2	5.4	11.0	3.6
<b>Net ton miles:</b>							
Total net ton miles performed ..... '000	26,823	160,000	161,614	191,223	474,694	1,680,574	2,694,928
Average net ton miles per truck .....	600	2,400	11,400	19,500	41,600	131,700	17,100
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> ..... '000	193,945	653,562	389,901	469,058	1,170,649	3,452,353	6,329,468
Average capacity ton miles per truck .....	4,400	10,000	27,600	47,900	102,500	270,600	40,100
Percentage of capacity utilized .....	13.8	24.5	41.5	40.8	40.5	48.7	42.6
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> ..... '000	384,265	1,170,886	518,060	527,412	1,116,346	3,689,853	7,406,822
Average gross ton miles per truck .....	8,700	17,900	36,600	53,900	97,800	289,200	46,900
Estimated annual population .....	44,155	65,506	14,137	9,789	11,417	12,760	157,764

<sup>1</sup> Ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS  
JANUARY 1 - DECEMBER 31, 1959

TABLE 6. Tons of Goods Carried by Province of Origin and Destination

Origin and destination	For hire			Private intercity			Total		
	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total
	'000 tons								
Newfoundland .....	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	2	2	—	—	—	—	2	2
New Brunswick .....	19	20	39	28	7	35	47	27	74
Ontario .....	818	930	1,748	178	353	531	996	1,283	2,279
Manitoba .....	—	—	—	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—	—	—	—
Alberta .....	42	48	90	—	—	—	42	48	90
British Columbia .....	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories .....	—	—	—	—	—	—	—	—	—
United States .....	68	129	197	215	65	280	283	194	477
<b>Totals .....</b>	<b>947</b>	<b>1,129</b>	<b>2,076</b>	<b>421</b>	<b>425</b>	<b>846</b>	<b>1,368</b>	<b>1,554</b>	<b>2,922</b>

TABLE 7. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	12	603	7,437	12.3	621.0	303	4.1
Animals and animal products .....	79	6,973	90,543	13.0	1,147.1	2,720	3.0
Mine products .....	44	519	9,305	17.9	211.2	408	4.4
Forest products .....	60	512	7,711	15.1	128.6	385	5.0
Manufactures and miscellaneous .....	972	24,399	300,298	12.3	308.7	17,572	5.9
N.O.S. general freight .....	909	27,489	375,705	13.7	413.5	17,317	4.6
<b>Totals .....</b>	<b>2,076</b>	<b>60,495</b>	<b>790,999</b>	<b>13.1</b>	<b>380.9</b>	<b>38,705</b>	<b>4.9</b>

Private intercity					
Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	
'000 tons	'000	'000	tons	miles	
Agricultural products .....	65	1,662	23,019	13.9	353.1
Animals and animal products .....	36	995	6,197	6.2	170.8
Mine products .....	35	406	6,124	15.1	173.1
Forest products .....	330	2,129	23,040	10.8	70.0
Manufactures and miscellaneous .....	364	7,899	69,186	8.8	189.9
N.O.S. general freight .....	16	1,884	4,078	2.2	256.8
<b>Totals .....</b>	<b>846</b>	<b>14,975</b>	<b>131,644</b>	<b>8.8</b>	<b>155.6</b>

## APPENDIX

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Quebec truck population in 1959							
For hire .....	261	2,094	2,739	2,283	2,357	4,234	13,968
Private:							
Intercity .....	7,570	12,098	2,554	2,355	4,432	4,918	33,927
Urban .....	18,517	35,495	7,185	4,780	4,524	3,608	74,109
Farm .....	17,807	15,819	1,659	371	104	—	35,760
<b>Totals .....</b>	<b>44,155</b>	<b>65,506</b>	<b>14,137</b>	<b>9,789</b>	<b>11,417</b>	<b>12,760</b>	<b>157,764</b>
	B. Survey Response						
	Total number of trucks selected in samples	Number of questionnaires returned completed	Number of sampled trucks reported not in use during survey week	Number of questionnaires not returned or returned incomplete and unusable			
For hire .....	3,207	1,634	607	966			
Private:							
Intercity .....	4,273	1,763	1,054	1,456			
Urban .....	8,526	3,345	2,002	3,179			
Farm .....	1,968	431	546	991			
<b>Totals .....</b>	<b>17,974</b>	<b>7,173</b>	<b>4,209</b>	<b>6,592</b>			







CATALOGUE No.

53-209

ANNUAL



Canada. Statistics, Bureau of

MOTOR TRANSPORT TRAFFIC Statistics :  
PROVINCE OF QUEBEC  
1960

*Published by Authority of*  
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DOMINION BUREAU OF STATISTICS  
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PROVINCE OF QUEBEC  
JANUARY 1-DECEMBER 31, 1960

CHART-1  
TRUCK REGISTRATIONS BY TYPE OF OPERATION

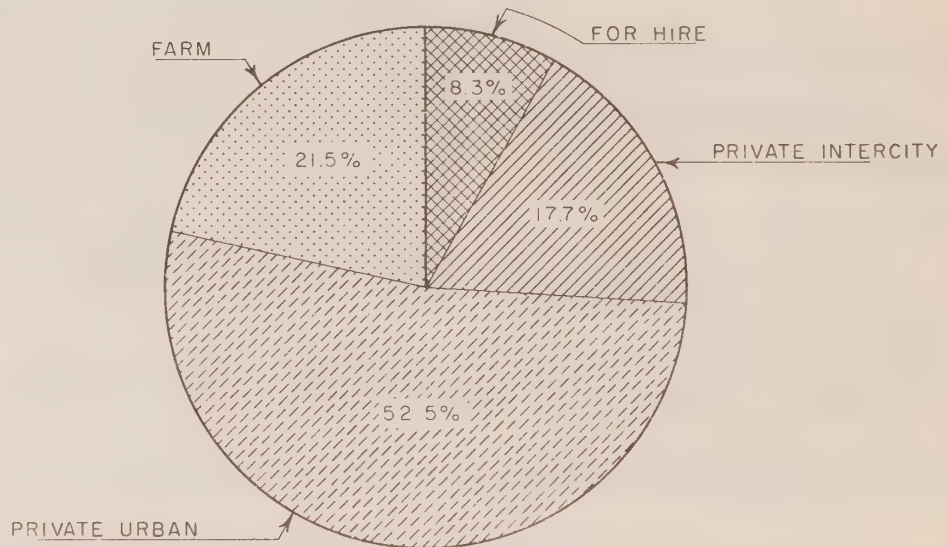
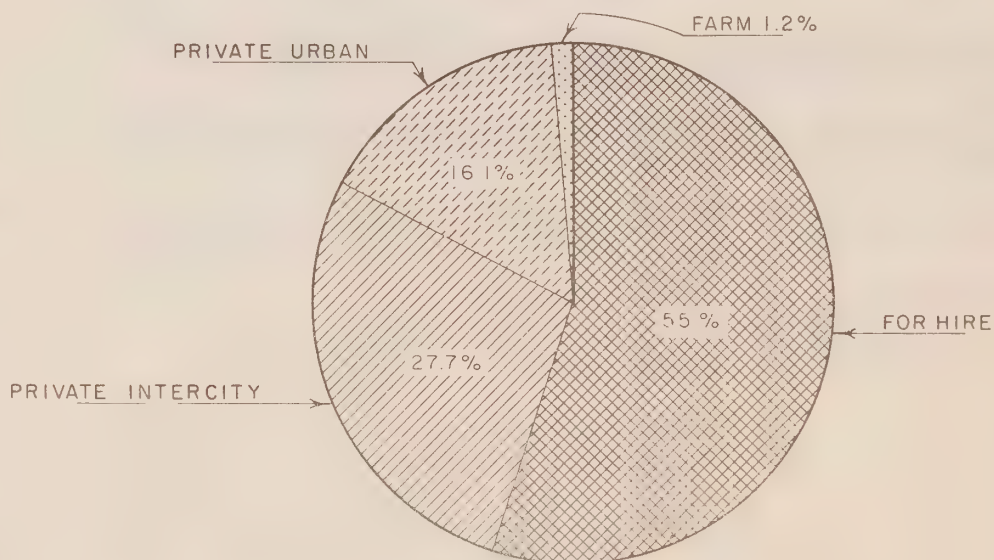


CHART-2  
NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1960 annual report of motor transport traffic in the Province of Quebec is based upon a sample of approximately 12 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In this report vehicles have been classified into the four functional categories as follows:

- |                   |   |
|-------------------|---|
| For hire          | — "L" licensed vehicles operated in intercity service and/or urban areas. |
| Private intercity | — "F" licensed vehicles operated beyond urban areas.                      |
| Private urban     | — "F" licensed vehicles operated only within urban areas.                 |
| Farm              | — "N" licensed vehicles.  |

Since Quebec motor vehicles are licensed on a tare weight basis, it was necessary to estimate equivalent gross vehicle weights to provide comparability with other annual provincial reports. For each truck in the sample the gross vehicle weight was estimated from the recorded tare weight and either the estimated carrying capacity or the weight of the heaviest load carried. The gross vehicle weight of each tractor-trailer combination was estimated from the tare weight of the tractor, the estimated tare weight of the trailer plus the weight of the heaviest load carried. It is emphasized that this method provides only approximately equivalent gross vehicle weights and therefore exact provincial comparability of the weight group classification cannot be assured.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957, 1958 and 1959.

### Expansion of Survey Results

Prior to 1959 the distribution of sample vehicles by gross vehicle weight group and by type of operation was used to provide population estimates as at the time of the sample selection. Sample results were then expanded to represent the operations of all trucks registered in the province by multiplying the sample results by the inverse ratio of the sample to the population and by the ratio of three months to one week. The expanded data for each of the four quarterly segments were added together to obtain annual provincial estimates.

Using this method it was found that in some provinces the truck population varied greatly from quarter to quarter. In many cases these changes were not due to an increase or decrease in the

actual truck population but were merely the result of the sample being chosen from an incomplete set of registration files.

To improve the accuracy of the provincial estimates the sample results, since 1959, have been blown up to represent the characteristics of a constant average population throughout the year rather than the population as at four different periods during the year. For this purpose the peak quarterly registration population of the preceding year is deemed to be the average population for the current year. The breakdown of the average population into classes and gross vehicle weight groups is based upon the distribution reported in the whole of the previous year.



## Review of Survey Results

The estimated population of trucks performing transportation services in Quebec during the year rose 4.9 per cent to 165,500 from 157,764 in 1959. Of these 13,700 or 8.3 per cent were for hire trucks; 29,353 or 17.7 per cent were private intercity vehicles; 86,947 or 52.5 per cent were private vehicles operating wholly within urban areas; and 35,500 or 21.5 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Quebec registered trucks.

A new table has been added to this section which summarizes for the year the quarterly commodity tables included in the quarterly report "Motor Transport Traffic, National Estimates", catalogue no. 53-004.

Although comprising only 8.3 per cent of Quebec's truck population, for hire vehicles accounted for 55.0 per cent of the total net ton miles and 25.9 per cent of the total tons of goods carried during 1960. This results from the high average yearly mileage of these trucks, 21,100 miles as compared with 8,800 miles for all trucks, and from the heavy average load carried of 8.3 tons compared to 4.1 tons for all trucks. Since almost one half of all for hire vehicles have a gross vehicle weight

of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline, 6.7 compared with 9.6 for all trucks. It is estimated that urban operations accounted for 10.2 per cent of the total net ton miles performed by Quebec registered for hire trucks and 3.4 per cent of the total net ton miles performed by private intercity vehicles.

Some trucks in Quebec under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 10 per cent of the total mileage travelled by Quebec registered trucks.

### Section II: Traffic Within the Province

This section presents estimates of traffic performed by Quebec registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 41.9 per cent and private intercity 9.3 per cent of their total net ton miles outside Quebec.

### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately one third of the total net ton miles performed and one sixth of the revenue earned by these vehicles. Over two thirds of the total tons of goods carried in this type of traffic by Quebec registered for hire trucks was transported to or from Ontario and one fifth to or from the United States.

## Appendix

During the year survey questionnaires were sent to the owners or operators of 19,307 trucks. Of this number 8,611 were returned completed and 4,748 trucks were reported not used during the

survey week. The remaining 5,948 were either returned incomplete and unusable or not returned at all.

February 23, 1962.

**SECTION I. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE  
JANUARY 1—DECEMBER 31, 1960**

**TABLE 1. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	289,721	401,154	642,601	122,782	1,455,258
Average yearly mileage per truck .....		21,100	13,700	7,400	3,500	8,800
Average distance each ton was carried .....		58.8	24.9	10.8	15.3	27.7
Percentage of total mileage travelled empty .....		21.5	53.3	42.8	61.1	43.0
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	30,567	42,352	57,949	9,124	139,992
Miles per gallon of gasoline .....		6.7	9.0	11.0	13.5	9.6
Total gallons of diesel oil consumed .....	'000	13,909	2,968	1,277	—	18,154
Miles per gallon of diesel oil .....		5.9	6.1	5.8	—	6.0
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	31,954	37,863	50,852	2,746	123,415
Average weight carried <sup>1</sup> .....	ton	8.3	5.0	1.5	0.9	4.1
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	1,879,817	944,467	549,705	42,104	3,416,093
Average net ton miles per truck .....		137,200	32,200	6,300	1,200	20,600
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	3,335,339	2,249,393	1,608,253	157,523	7,350,508
Average capacity ton miles per truck .....		243,500	76,600	18,500	4,400	44,400
Percentage of capacity utilized .....		56.4	42.0	34.2	26.7	46.5
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	3,980,836	2,480,966	2,193,378	273,063	8,928,243
Average gross ton miles per truck .....		290,600	84,500	25,200	7,700	53,900
<b>Revenue:</b>						
Total revenue .....	\$'000	154,350	—	—	—	—
Revenue per ton mile .....	¢	8.2	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	53.5	—	—	—	—
Average revenue per truck .....	\$	11,300	—	—	—	—
Estimated annual population .....		13,700	29,353	86,947	35,500	165,500

**TABLE 2. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	276,010	552,373	115,832	99,523	139,799	1,455,258
Average yearly mileage per truck .....		6,000	7,800	7,800	9,300	11,800	8,800
Average distance each ton was carried .....		19.3	19.2	13.7	16.0	15.3	27.7
Percentage of total mileage travelled empty .....		61.8	48.6	31.3	30.0	34.7	43.0
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	18,097	46,122	12,221	12,589	19,755	139,992
Miles per gallon of gasoline .....		15.3	12.0	9.5	7.9	7.1	9.6
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	18,154
Miles per gallon of diesel oil .....		—	—	—	—	—	6.0
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	1,789	9,192	11,903	14,616	30,716	123,415
Average weight carried <sup>1</sup> .....	ton	0.3	0.6	2.0	3.4	5.1	4.1
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	34,599	176,386	162,939	233,895	469,317	3,416,093
Average net ton miles per truck .....		800	2,500	11,000	21,900	39,800	20,600
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	211,712	716,773	405,956	553,879	1,151,112	7,350,508
Average capacity ton miles per truck .....		4,600	10,100	27,300	51,800	97,500	44,400
Percentage of capacity utilized .....		16.3	24.6	40.1	42.2	40.8	46.5
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	436,429	1,289,023	545,038	615,262	1,121,344	8,928,243
Average gross ton miles per truck .....		9,500	18,200	36,700	57,500	95,000	53,900
Estimated annual population .....		45,886	70,924	14,860	10,695	11,804	165,500

See footnotes at end of Table 6, page 9.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under .....	7,153	70,397	146,424	2.1	20.5	46,521	31.8
20,001-30,000 lb. ....	7,491	26,887	137,555	5.1	18.4	18,866	13.7
30,001-50,000 lb. ....	17,310	129,389	1,595,838	12.3	92.2	88,963	5.6
50,001 lb. and over .....	—	—	—	—	—	—	—
<b>Totals .....</b>	<b>31,954</b>	<b>226,673</b>	<b>1,879,817</b>	<b>8.3</b>	<b>58.8</b>	<b>154,350</b>	<b>8.2</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	2,523	64,079	35,947	0.6	14.2		
10,001-20,000 lb. ....	6,272	36,427	121,644	3.3	19.4		
20,001-30,000 lb. ....	12,123	38,624	226,208	5.9	18.7		
30,001-50,000 lb. ....	16,945	48,380	560,668	11.6	33.1		
50,001 lb. and over .....	—	—	—	—	—		
<b>Totals .....</b>	<b>37,863</b>	<b>187,510</b>	<b>944,467</b>	<b>5.0</b>	<b>24.9</b>		

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	479	3,058	32,391	10.6	67.6	1,957	6.0
Animals and animal products .....	2,207	43,905	308,765	7.0	139.9	18,861	6.1
Mine products .....	11,027	9,919	102,324	10.3	9.3	9,016	8.8
Forest products .....	720	4,306	52,348	12.2	72.7	3,316	6.3
Manufactures and miscellaneous .....	10,821	101,824	868,576	8.5	80.3	73,594	8.5
N.O.S. general freight .....	6,700	63,661	515,413	8.1	76.9	47,606	9.2
<b>Totals .....</b>	<b>31,954</b>	<b>226,673</b>	<b>1,879,817</b>	<b>8.3</b>	<b>58.8</b>	<b>154,350</b>	<b>8.2</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	490	6,312	46,500	7.4	94.9		
Animals and animal products .....	1,313	25,759	71,799	2.8	54.7		
Mine products .....	21,895	19,781	170,637	8.6	7.8		
Forest products .....	3,574	17,115	158,349	9.3	44.3		
Manufactures and miscellaneous .....	9,569	106,655	453,172	4.2	47.4		
N.O.S. general freight .....	1,022	11,888	44,010	3.7	43.0		
<b>Totals .....</b>	<b>37,863</b>	<b>187,510</b>	<b>944,467</b>	<b>5.0</b>	<b>24.9</b>		



**SECTION II. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS WITHIN THE PROVINCE**  
**JANUARY 1 – DECEMBER 31, 1960**

**TABLE 5. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	226,678	376,043	642,601	122,782	1,368,100
Average yearly mileage per truck .....		16,500	12,800	7,400	3,500	8,300
Average distance each ton was carried .....		34.4	22.7	10.8	15.3	20.6
Percentage of total mileage travelled empty .....		26.0	52.6	42.8	61.1	44.3
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	27,723	39,774	57,949	9,124	134,570
Miles per gallon of gasoline .....		6.9	9.1	11.0	13.5	9.7
Total gallons of diesel oil consumed .....	'000	5,906	2,396	1,277	—	9,579
Miles per gallon of diesel oil .....		5.9	6.1	5.8	—	6.0
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	31,760	37,752	50,852	2,746	123,110
Average weight carried <sup>1</sup> .....	ton	6.5	4.8	1.5	0.9	3.3
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	1,091,676	857,027	549,705	42,104	2,540,512
Average net ton miles per truck .....		79,700	29,200	6,300	1,200	15,400
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	2,241,621	2,058,296	1,608,253	157,523	6,065,693
Average capacity ton miles per truck .....		163,600	70,100	18,500	4,400	36,700
Percentage of capacity utilized .....		48.7	41.6	34.2	26.7	41.9
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	2,469,133	2,264,312	2,193,378	273,063	7,199,886
Average gross ton miles per truck .....		180,200	77,100	25,200	7,700	43,500
<b>Revenue:</b>						
Total revenue .....	\$'000	132,553	—	—	—	—
Revenue per ton mile .....	¢	12.1	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	58.5	—	—	—	—
Average revenue per truck .....	\$	9,700	—	—	—	—
Estimated annual population .....		13,700	29,353	86,947	35,500	165,500

**TABLE 6. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	275,764	540,265	114,506	98,544	135,768	1,368,104
Average yearly mileage per truck .....		6,000	7,600	7,700	9,200	11,500	8,300
Average distance each ton was carried .....		19.3	19.1	13.6	15.7	14.7	20.6
Percentage of total mileage travelled empty .....		61.8	47.6	31.2	30.1	34.7	44.3
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	18,081	45,096	12,078	12,467	19,221	134,570
Miles per gallon of gasoline .....		15.3	12.0	9.5	7.9	7.1	9.7
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	9,579
Miles per gallon of diesel oil .....		—	—	—	—	—	6.0
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	1,789	9,192	11,901	14,594	30,693	123,110
Average weight carried <sup>1</sup> .....	ton	0.3	0.6	2.0	3.3	5.1	3.3
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	34,534	175,572	161,533	229,639	451,623	2,540,512
Average net ton miles per truck .....		800	2,500	10,900	21,500	38,300	15,400
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	211,515	699,395	401,478	546,958	1,114,668	6,065,693
Average capacity ton miles per truck .....		4,600	9,900	27,000	51,100	94,400	36,700
Percentage of capacity utilized .....		16.3	25.1	40.2	42.0	40.5	41.9
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	436,100	1,263,668	539,310	607,354	1,084,924	7,199,886
Average gross ton miles per truck .....		9,500	17,800	36,300	56,800	91,900	43,500
Estimated annual population .....		45,886	70,924	14,860	10,695	11,804	165,500

<sup>1</sup> Net ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS  
JANUARY 1 – DECEMBER 31, 1960**

**TABLE 7. Tons of Goods Carried by Province of Origin and Destination**

Origin and destination	For hire			Private intercity			Total		
	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total
	'000 tons								
Newfoundland .....	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	4	4	8	—	—	—	4	4	8
Nova Scotia .....	—	1	1	—	1	1	—	2	2
New Brunswick .....	4	27	31	23	93	116	27	120	147
Ontario .....	426	599	1,025	110	501	611	536	1,100	1,636
Manitoba .....	—	—	—	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—	—	—	—
Alberta .....	53	63	116	—	—	—	53	63	116
British Columbia .....	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories .....	—	—	—	—	—	—	—	—	—
United States .....	135	162	297	133	100	233	268	262	530
<b>Totals .....</b>	<b>622</b>	<b>856</b>	<b>1,478</b>	<b>266</b>	<b>695</b>	<b>961</b>	<b>888</b>	<b>1,551</b>	<b>2,439</b>

**TABLE 8. Selected Statistics by Commodity Group**

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Agricultural products .....	36	1,090	13,534	12.4	373.0	654	4.8
Animals and animal products .....	94	9,799	126,456	12.9	1,351.7	3,151	2.5
Mine products .....	75	489	6,582	13.5	87.5	310	4.7
Forest products .....	38	599	7,977	13.3	212.7	563	7.1
Manufactures and miscellaneous .....	847	26,429	330,847	12.5	390.5	12,920	3.9
N.O.S. general freight .....	388	12,356	164,727	13.3	424.4	8,349	5.1
Totals .....	1,478	50,762	650,123	12.8	439.9	25,947	4.0
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Agricultural products .....	66	1,501	20,037	13.4	301.1		
Animals and animal products .....	17	847	6,154	7.3	344.5		
Mine products .....	121	177	2,054	11.6	17.1		
Forest products .....	376	2,578	21,354	8.3	56.7		
Manufactures and miscellaneous .....	369	8,252	76,765	9.3	208.3		
N.O.S. general freight .....	12	436	3,243	7.4	283.0		
Totals .....	961	13,791	129,607	9.4	134.8		

## APPENDIX

Type of operation	A. Population						
	0 - 2½ tons 0 - 5,000 lb.	2½ - 5 tons 5,001 - 10,000 lb.	5 - 7½ tons 10,001 - 15,000 lb.	7½ - 10 tons 15,001 - 20,000 lb.	10 - 15 tons 20,001 - 30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Quebec truck population in 1960							
For hire .....	426	2,052	2,265	2,324	2,458	4,175	13,700
Private:							
Intercity .....	5,818	11,198	2,311	2,449	4,113	3,464	29,353
Urban .....	22,252	42,043	8,334	5,501	5,125	3,692	86,947
Farm .....	17,390	15,631	1,950	421	108	—	35,500
Totals .....	45,886	70,924	14,860	10,695	11,804	11,331	165,500
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable	
For hire .....	4,051	2,208		799		1,044	
Private:							
Intercity .....	5,619	2,413		1,497		1,709	
Urban .....	8,247	3,480		2,099		2,668	
Farm .....	1,390	510		353		527	
Totals .....	19,307	8,611		4,748		5,948	





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ANNUAL



Canada. Statistics, Bureau of

# MOTOR TRANSPORT TRAFFIC

PROVINCE OF QUEBEC

1961



*Published by Authority of*

The Honourable George Hees, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS

Public Finance and Transportation Division

Transportation Section

January 1963  
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PROVINCE OF QUEBEC  
JANUARY 1-DECEMBER 31, 1961

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

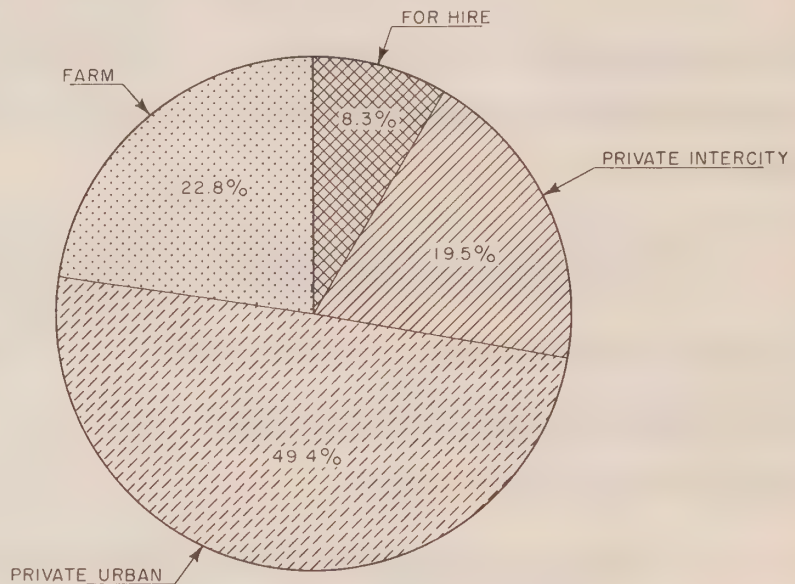
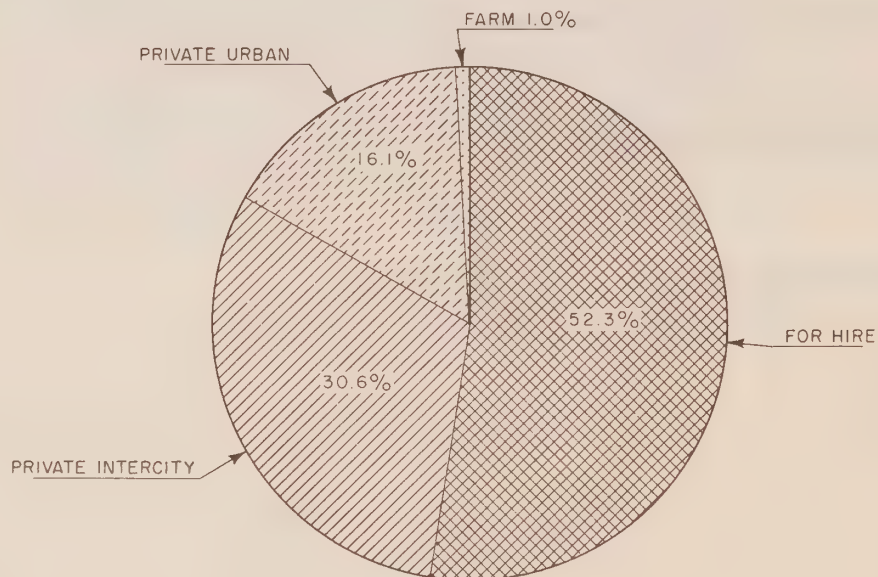


CHART-2

NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1961 annual report of motor transport traffic in the Province of Quebec is based upon a sample of approximately 11 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In this report vehicles have been classified into the four functional categories as follows:

For hire           —"L"       licensed vehicles  
operated in intercity service  
and/or urban areas.

Private intercity —"F"       licensed vehicles  
operated beyond urban areas.  
Private urban     —"F"       licensed vehicles  
operated only within urban  
areas.  
Farm               —"N"       licensed vehicles.

Since Quebec motor vehicles are licensed on a tare weight basis, it was necessary to estimate equivalent gross vehicle weights to provide comparability with other annual provincial reports. For each truck in the sample the gross vehicle weight was estimated from the recorded tare weight and either the estimated carrying capacity or the weight of the heaviest load carried. The gross vehicle weight of each tractor-trailer combination was estimated from the tare weight of the tractor, the estimated tare weight of the trailer plus the weight of the heaviest load carried. It is emphasized that this method provides only approximately equivalent gross vehicle weights and therefore exact provincial comparability of the weight group classification cannot be assured.

For the first time statistics are included in this report for the weight group 50,001 lb. and over, see Table 3. This information was made available due to an increase in gross vehicle weight limits permitted for the year 1961.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957 to 1960.

### Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.
2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selections are stratified by weight group. Therefore it

is only necessary to multiply the sample in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant population. The population then has to be distributed by function. The average distribution of "L" and "N" licensed vehicles for the four quarterly sample populations of the previous year are used as an estimate of the for hire and farm truck populations respectively. The average distribution obtained from the previous year's completed questionnaires is used to segregate "F" licensed vehicles into either the private intercity or private urban category. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner.



4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent

influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

### Review of Survey Results

The estimated population of trucks performing transportation services in Quebec during the year rose 7.4 per cent to 177,700 from 165,500 in 1960. Of these 14,800 or 8.3 per cent were for hire trucks; 34,684 or 19.5 per cent were private intercity vehicles; 87,816 or 49.4 per cent were private vehicles operating wholly within urban areas; and 40,400 or 22.8 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Quebec registered trucks.

Although comprising only 8.3 per cent of Quebec's truck population, for hire vehicles accounted for 52.3 per cent of the total net ton miles and 26.0 per cent of the total tons of goods carried during 1961. This results from the high average yearly mileage of these trucks 20,300 miles as compared with 8,700 miles for all trucks, and from the heavy average load carried of 8.3 tons compared to 4.0 tons for all trucks. Since almost one half of all for hire vehicles have a gross vehicle weight of over ten tons the heavier loads carried by these trucks are to be expected. The predominance of

heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 6.5 compared with 9.3 for all trucks. It is estimated that urban operations accounted for 10.9 per cent of the total net ton miles performed by Quebec registered for hire trucks and 3.7 per cent of the total net ton miles performed by private intercity vehicles.

Some trucks in Quebec under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 8 per cent of the total mileage travelled by Quebec registered trucks.

#### Section II: Traffic Within the Province

This section presents estimates of traffic performed by Quebec registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 34.8 per cent and private intercity 7.8 per cent of their total net ton miles outside Quebec.

#### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately one third of the total net ton miles performed and one sixth of the revenue earned by these vehicles. Almost three quarters of the total tons of goods carried in this type of traffic by Quebec registered for hire trucks was transported to or from Ontario and one sixth to or from the United States.

### Appendix

During the year survey questionnaires were sent to the owners or operators of 19,144 trucks. Of this number 8,703 were returned completed and 4,511 trucks were reported not used during the

survey week. The remaining 5,930 were either returned incomplete and unusable or not returned at all.

**SECTION I. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE  
JANUARY 1 - DECEMBER 31, 1961**

**TABLE 1. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled .....	'000	301,145	468,899	657,216	123,553	1,550,813
Average yearly mileage per truck .....		20,300	13,500	7,500	3,100	8,700
Average distance each ton was carried .....		56.6	25.9	11.6	15.7	28.1
Percentage of total mileage travelled empty .....		25.2	53.3	38.9	64.6	42.6
Fuel:						
Total gallons of gasoline consumed .....	'000	34,950	50,303	60,395	9,355	155,003
Miles per gallon of gasoline .....		6.5	8.9	10.7	13.2	9.3
Total gallons of diesel oil consumed .....	'000	12,174	3,749	1,671	—	17,594
Miles per gallon of diesel oil .....		6.0	5.7	5.1	—	5.9
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried .....	'000	33,096	42,176	49,906	2,306	127,484
Average weight carried <sup>1</sup> .....	ton	8.3	5.0	1.4	0.8	4.0
Net ton miles:						
Total net ton miles performed .....	'000	1,874,685	1,093,888	577,270	36,123	3,581,966
Average net ton miles per truck .....		126,700	31,500	6,600	900	20,200
Capacity ton miles:						
Total capacity ton miles <sup>2</sup> .....	'000	3,511,987	2,650,041	1,685,179	157,798	8,005,005
Average capacity ton miles per truck .....		237,300	76,400	19,200	3,900	45,000
Percentage of capacity utilized .....		53.4	41.3	34.3	22.9	44.7
Gross ton miles:						
Total gross ton miles <sup>3</sup> .....	'000	3,989,679	2,878,281	2,294,927	269,223	9,432,110
Average gross ton miles per truck .....		269,600	83,000	26,100	6,700	53,100
Revenue:						
Total revenue .....	\$'000	157,006	—	—	—	—
Revenue per ton mile .....	¢	8.4	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	52.1	—	—	—	—
Average revenue per truck .....	\$	10,600	—	—	—	—
Estimated annual population .....		14,800	34,684	87,816	40,400	177,700

**TABLE 2. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	296,516	579,583	111,242	115,523	156,764	1,550,813
Average yearly mileage per truck .....		6,000	7,600	7,600	9,600	12,000	8,700
Average distance each ton was carried .....		23.9	21.6	19.5	17.5	16.9	28.1
Percentage of total mileage travelled empty .....		55.8	49.6	29.6	30.1	32.8	42.6
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	19,734	47,607	12,583	14,958	22,402	155,003
Miles per gallon of gasoline .....		15.0	12.2	8.8	7.7	7.0	9.3
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	17,594
Miles per gallon of diesel oil .....		—	—	—	—	—	5.9
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	1,656	8,327	8,129	15,711	32,570	127,484
Average weight carried <sup>1</sup> .....	ton	0.3	0.6	2.0	3.4	5.2	4.0
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	39,564	179,650	158,655	275,023	550,980	3,581,966
Average net ton miles per truck .....		800	2,400	10,800	22,900	42,200	20,200
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	222,874	762,761	389,438	644,973	1,312,507	8,005,005
Average capacity ton miles per truck .....		4,500	10,000	26,600	53,800	100,500	45,000
Percentage of capacity utilized .....		17.8	23.6	40.7	42.6	42.0	44.7
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	466,372	1,343,732	525,217	724,817	1,279,807	9,432,110
Average gross ton miles per truck .....		9,400	17,700	35,900	60,400	98,000	53,100
Estimated annual population .....		49,833	75,967	14,642	11,992	13,063	177,700

See footnotes at end of Table 6, page 9.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under .....	6,495	65,511	158,080	2.4	24.3	38,234	24.2
20,001-30,000 lb. ....	8,285	33,068	164,675	5.0	19.9	21,673	13.2
30,001-50,000 lb. ....	11,872	56,891	515,835	9.1	43.4	54,812	10.6
50,001 lb. and over .....	6,444	69,691	1,036,095	14.9	160.8	42,287	4.1
<b>Totals .....</b>	<b>33,096</b>	<b>225,161</b>	<b>1,874,685</b>	<b>8.3</b>	<b>56.6</b>	<b>157,006</b>	<b>8.4</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	1,426	77,628	55,796		0.7		39.1
10,001-20,000 lb. ....	7,910	45,351	157,318		3.5		19.9
20,001-30,000 lb. ....	13,756	44,491	269,032		6.0		19.6
30,001-50,000 lb. ....	13,342	32,317	307,282		9.5		23.0
50,001 lb. and over .....	5,742	19,206	304,460		15.9		53.0
<b>Totals .....</b>	<b>42,176</b>	<b>218,993</b>	<b>1,093,888</b>		<b>5.0</b>		<b>25.9</b>

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	125	2,421	16,268	6.7	129.9	1,127	6.9
Food, feed, beverages and tobacco .....	4,292	52,705	392,328	7.4	91.4	22,613	5.8
Crude materials, inedible .....	10,574	13,320	145,672	10.9	13.8	10,478	7.2
Fabricated materials, inedible .....	6,659	32,710	428,410	13.1	64.3	25,869	6.0
End products, inedible .....	3,299	47,818	295,004	6.2	89.4	40,468	13.7
General freight .....	8,147	76,187	597,003	7.8	73.3	56,451	9.5
<b>Totals .....</b>	<b>33,096</b>	<b>225,161</b>	<b>1,874,685</b>	<b>8.3</b>	<b>56.6</b>	<b>157,006</b>	<b>8.4</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....	332	5,440	18,952		3.5		57.1
Food, feed, beverages and tobacco .....	4,128	69,615	251,820		3.6		61.0
Crude materials, inedible .....	26,013	33,494	313,392		9.4		12.0
Fabricated materials, inedible .....	8,999	37,554	346,014		9.2		38.4
End products, inedible .....	1,582	46,568	92,973		2.0		58.8
General freight .....	1,122	26,322	70,737		2.7		63.0
<b>Totals .....</b>	<b>42,176</b>	<b>218,993</b>	<b>1,093,888</b>		<b>5.0</b>		<b>25.9</b>



**SECTION II. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS WITHIN THE PROVINCE  
JANUARY 1 - DECEMBER 31, 1961**

**TABLE 5. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	247,928	455,666	657,216	123,553	1,484,363
Average yearly mileage per truck .....		16,800	13,100	7,500	3,100	8,400
Average distance each ton was carried .....		37.1	24.0	11.6	15.7	22.4
Percentage of total mileage travelled empty .....		28.4	53.8	38.9	64.6	43.9
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	31,432	48,601	60,395	9,355	149,783
Miles per gallon of gasoline .....		6.7	9.0	10.7	13.2	9.5
Total gallons of diesel oil consumed .....	'000	6,225	3,290	1,671	—	11,186
Miles per gallon of diesel oil .....		6.0	5.8	5.1	—	5.8
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of goods carried:</b>						
Total tons of goods carried .....	'000	32,986	42,000	49,906	2,306	127,198
Average weight carried <sup>1</sup> .....	ton	6.9	4.8	1.4	0.8	3.4
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	1,222,677	1,008,711	577,270	36,123	2,844,781
Average net ton miles per truck .....		82,600	29,100	6,600	900	16,000
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	2,494,094	2,482,340	1,685,179	157,798	6,819,411
Average capacity ton miles per truck .....		168,500	71,600	19,200	3,900	38,400
Percentage of capacity utilized .....		49.0	40.6	34.3	22.9	41.7
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	2,760,483	2,695,530	2,294,927	269,223	8,020,163
Average gross ton miles per truck .....		186,500	77,700	26,100	6,700	45,100
<b>Revenue:</b>						
Total revenue .....	\$'000	135,358	—	—	—	—
Revenue per ton mile .....	¢	11.1	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	54.6	—	—	—	—
Average revenue per truck .....	\$	9,100	—	—	—	—
Estimated annual population .....		14,800	34,684	87,816	40,400	177,700

**TABLE 6. All Trucks by Gross Vehicle Weight Group**

	0 - 2½ tons 0 - 5,000 lb.	2½ - 5 tons 5,001 - 10,000 lb.	5 - 7½ tons 10,001 - 15,000 lb.	7½ - 10 tons 15,001 - 20,000 lb.	10 - 15 tons 20,001 - 30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	296,516	577,993	111,072	114,905	153,135	1,484,363
Average yearly mileage per truck .....		6,000	7,600	7,600	9,600	11,700	8,400
Average distance each ton was carried .....		23.9	21.3	19.5	17.4	16.5	22.4
Percentage of total mileage travelled empty .....		55.8	49.6	29.6	30.0	32.7	43.9
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	19,734	47,496	12,556	14,884	21,912	149,783
Miles per gallon of gasoline .....		15.0	12.2	8.8	7.7	7.0	9.5
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	11,186
Miles per gallon of diesel oil .....		—	—	—	—	—	5.8
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	1,656	8,327	8,129	15,711	32,570	127,198
Average weight carried <sup>1</sup> .....	ton	0.3	0.6	2.0	3.4	5.2	3.4
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	39,564	177,345	158,125	273,381	537,674	2,844,781
Average net ton miles per truck .....		800	2,300	10,800	22,800	41,200	16,000
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	222,874	759,149	388,361	640,581	1,282,463	6,819,411
Average capacity ton miles per truck .....		4,500	10,000	26,500	53,400	98,200	38,400
Percentage of capacity utilized .....		17.8	23.4	40.7	42.7	41.9	41.7
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	466,372	1,337,585	524,208	720,606	1,249,941	8,020,163
Average gross ton miles per truck .....		9,400	17,600	35,800	60,100	95,700	45,100
Estimated annual population .....		49,833	75,967	14,642	11,992	13,063	177,700

<sup>1</sup> Net ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS  
JANUARY 1 – DECEMBER 31, 1961**

**TABLE 7. Tons of Goods Carried by Province of Origin and Destination**

Origin and destination	For hire			Private intercity			Total		
	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total
	'000 tons								
Newfoundland .....	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	2	2	4	—	—	—	2	2	4
Nova Scotia .....	3	6	9	—	1	1	3	7	10
New Brunswick .....	24	47	71	21	36	57	45	83	128
Ontario .....	554	612	1,166	111	379	490	665	991	1,656
Manitoba .....	3	3	6	—	—	—	3	3	6
Saskatchewan .....	—	—	—	2	2	4	2	2	4
Alberta .....	41	42	83	—	—	—	41	42	83
British Columbia .....	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories .....	—	—	—	—	—	—	—	—	—
United States .....	109	143	252	187	61	248	296	204	500
<b>Totals .....</b>	<b>736</b>	<b>855</b>	<b>1,591</b>	<b>321</b>	<b>479</b>	<b>800</b>	<b>1,057</b>	<b>1,334</b>	<b>2,391</b>

**TABLE 8. Selected Statistics by Commodity Group**

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	1	121	799	6.6	697.4	60	7.5
Food, feed, beverages and tobacco .....	275	10,695	144,105	13.5	522.6	4,647	3.2
Crude materials, inedible .....	112	1,658	28,666	17.3	255.1	892	3.1
Fabricated materials, inedible .....	449	8,424	115,272	13.7	257.2	4,772	4.1
End products, inedible .....	433	14,387	139,405	9.7	322.1	9,205	6.6
General freight .....	321	12,475	181,174	14.5	564.2	4,858	2.7
<b>Totals .....</b>	<b>1,591</b>	<b>47,760</b>	<b>609,421</b>	<b>12.8</b>	<b>383.0</b>	<b>24,434</b>	<b>4.0</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....	13	554	3,326	6.0	248.7		
Food, feed, beverages and tobacco .....	141	3,553	42,012	11.8	297.8		
Crude materials, inedible .....	377	2,396	30,106	12.6	79.9		
Fabricated materials, inedible .....	195	2,804	23,044	8.2	118.4		
End products, inedible .....	50	1,765	10,568	6.0	209.9		
General freight .....	24	810	4,700	5.8	203.4		
<b>Totals .....</b>	<b>800</b>	<b>11,882</b>	<b>113,756</b>	<b>9.6</b>	<b>142.3</b>		

## APPENDIX

Type of operation	A. Population						
	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Quebec truck population in 1961							
For hire.....	448	2,414	2,351	2,562	2,728	4,297	14,800
Private:							
Intercity .....	6,892	13,004	2,853	3,256	4,845	3,834	34,684
Urban .....	22,940	42,392	7,416	5,595	5,401	4,072	87,816
Farm .....	19,553	18,157	2,022	579	89	—	40,400
<b>Totals</b> .....	<b>49,833</b>	<b>75,967</b>	<b>14,642</b>	<b>11,992</b>	<b>13,063</b>	<b>12,203</b>	<b>177,700</b>
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed	Number of sampled trucks reported not in use during survey week	Number of questionnaires not returned or returned incomplete and unusable			
For hire.....	4,250	2,341	746	1,163			
Private:							
Intercity .....	5,398	2,367	1,385	1,646			
Urban .....	8,279	3,550	2,055	2,674			
Farm .....	1,217	445	325	447			
<b>Totals</b> .....	<b>19,144</b>	<b>8,703</b>	<b>4,511</b>	<b>5,930</b>			





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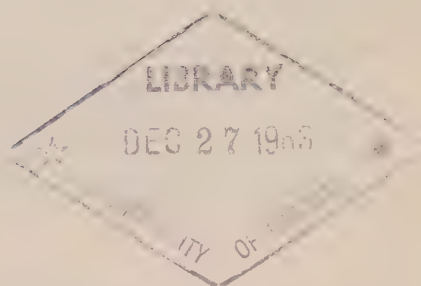
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CANADA

**MOTOR TRANSPORT TRAFFIC**  
**PROVINCE OF QUEBEC**  
**1962**



*Published by Authority of*  
The Minister of Trade and Commerce

**DOMINION BUREAU OF STATISTICS**  
Public Finance and Transportation Division  
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December 1963  
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PROVINCE OF QUEBEC  
JANUARY 1-DECEMBER 31, 1962

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

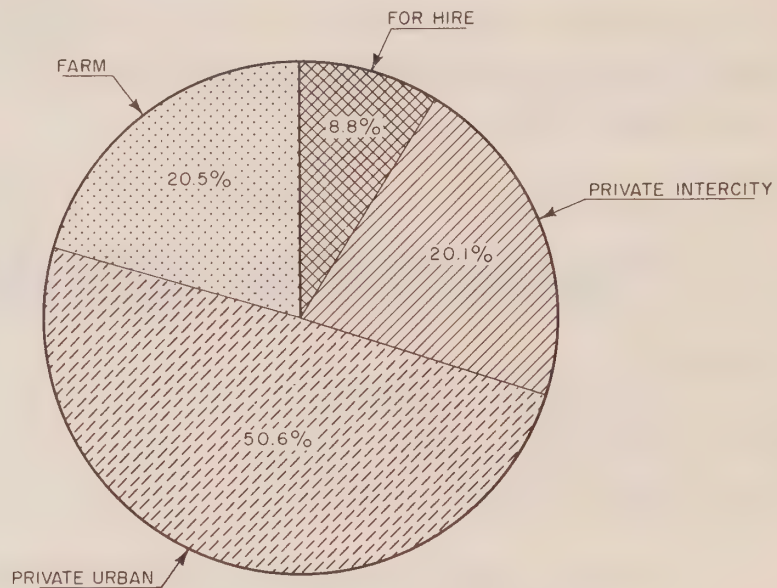
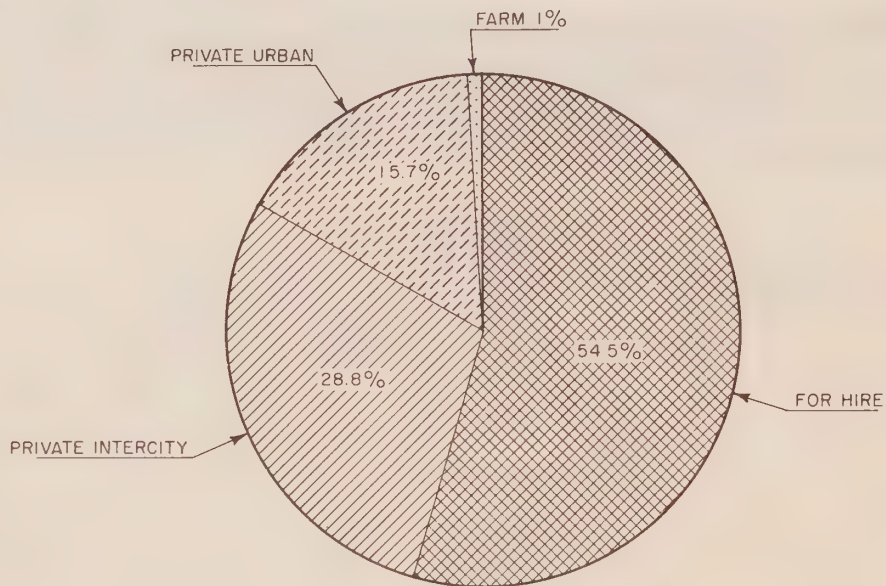


CHART-2

NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1962 annual report of motor transport traffic in the Province of Quebec is based upon a sample of approximately 11 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In this report vehicles have been classified into the four functional categories as follows:

For hire                   —“L”      licensed      vehicles  
                                  operated in intercity service  
                                  and/or urban areas.

Private intercity —“F”      licensed      vehicles  
                                  operated beyond urban areas.

Private urban       —“F”      licensed      vehicles  
                                  operated only within urban  
                                  areas.

Farm                   —“N”      licensed      vehicles.

Since Quebec motor vehicles are licensed on a tare weight basis, it was necessary to estimate equivalent gross vehicle weights to provide comparability with other annual provincial reports. For each truck in the sample the gross vehicle weight was estimated from the recorded tare weight and either the estimated carrying capacity or the weight of the heaviest load carried. The gross vehicle weight of each tractor-trailer combination was estimated from the tare weight of the tractor, the estimated tare weight of the trailer plus the weight of the heaviest load carried. It is emphasized that this method provides only approximately equivalent gross vehicle weights and therefore exact provincial comparability of the weight group classification cannot be assured.

For the first time statistics are included in this report for the weight group 50,001 lb. and over, see Table 3. This information was made available due to an increase in gross vehicle weight limits permitted for the year 1961.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled “Motor Transport Traffic, National Estimates”, Catalogue No. 53-207, for 1957 to 1961.

### Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.

2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selections are stratified by weight group. Therefore it is only necessary to multiply the sample in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant population. The population then has to be distributed by function. The average distribution of “L” and “N” licensed vehicles for the four quarterly sample populations of the previous year are used as an estimate of the for hire and farm truck populations respectively. The average distribution obtained from the previous year’s completed questionnaires is used to segregate “F” licensed vehicles into either the private intercity or



private urban category. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner.
4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.

6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

### Review of Survey Results

The estimated population of trucks performing transportation services in Quebec during the year rose 7.5 per cent to 191,000 from 177,700 in 1961. Of these 16,000 or 8.8 per cent were for hire trucks; 38,379 or 20.1 per cent were private intercity vehicles; 96,721 or 50.6 per cent were private vehicles operating wholly within urban areas; and 39,290 or 20.5 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Quebec registered trucks.

Although comprising only 8.8 per cent of Quebec's truck population, for hire vehicles accounted for 54.5 per cent of the total net ton miles and 27.2 per cent of the total tons of goods carried during 1962. This results from the high average yearly mileage of these trucks 19,500 miles as compared with 8,900 miles for all trucks, and from the heavy average load carried of 8.2 tons compared to 4.2 tons for all trucks. Since almost one half of all for hire vehicles have a gross vehicle weight of

over ten tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline 6.5 compared with 9.5 for all trucks. It is estimated that urban operations accounted for 12.9 per cent of the total net ton miles performed by Quebec registered for hire trucks and 4.6 per cent of the total net ton miles performed by private intercity vehicles.

From the month of April until mid-July 1962 many major Quebec for hire carriers were involved in a labour dispute and virtually ceased operations during this period. The effects of this dispute are not too noticeable on the annual totals as the results for the remainder of the year were extremely good. This was to be expected as the economy was very buoyant throughout the year with the Gross National Product rising 8.0 per cent.

Some trucks in Quebec under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 13 per cent of the total mileage travelled by Quebec registered trucks.

#### Section II: Traffic Within the Province

This section presents estimates of traffic performed by Quebec registered trucks entirely inside the province and excludes the "outside the province" portion of the interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 32.8 per cent and private intercity 7.9 per cent of their total net ton miles outside Quebec.

**Section III: Interprovincial and International Traffic**

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately one third of the total net ton miles performed

and one seventh of the revenue earned by these vehicles. Almost three quarters of the total tons of goods carried in this type of traffic by Quebec registered for hire trucks was transported to or from Ontario and one sixth to or from the United States.

**Appendix**

During the year survey questionnaires were sent to the owners or operators of 21,737 trucks. Of this number 9,884 were returned completed and 6,028 trucks were reported not used during the

survey week. The remaining 5,825 were either returned incomplete and unusable or not returned at all.

October 16, 1963.



**SECTION I. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE  
JANUARY 1 - DECEMBER 31, 1962**

**TABLE 1. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled .....	'000	325,708	524,820	738,475	117,358	1,706,361
Average yearly mileage per truck .....		19,500	13,700	7,600	3,000	8,900
Average distance each ton was carried .....		57.2	28.0	10.8	16.3	28.5
Percentage of total mileage travelled empty .....		22.8	55.4	48.3	64.6	46.7
Fuel:						
Total gallons of gasoline consumed .....	'000	37,643	53,365	67,793	9,248	168,049
Miles per gallon of gasoline .....		6.5	9.4	10.7	12.7	9.5
Total gallons of diesel oil consumed .....	'000	13,310	3,606	2,271	—	19,187
Miles per gallon of diesel oil .....		6.0	6.2	5.5	—	6.0
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried .....	'000	36,172	39,049	55,582	2,411	133,214
Average weight carried <sup>1</sup> .....	ton	8.2	4.7	1.6	0.9	4.2
Net ton miles:						
Total net ton miles performed .....	'000	2,070,671	1,093,729	598,278	39,331	3,802,009
Average net ton miles per truck .....		124,000	28,500	6,200	1,000	19,900
Capacity ton miles:						
Total capacity ton miles <sup>2</sup> .....	'000	3,837,542	2,774,736	1,967,462	152,534	8,732,274
Average capacity ton miles per truck .....		229,800	72,300	20,300	3,900	45,700
Percentage of capacity utilized .....		54.0	39.4	30.4	25.8	43.5
Gross ton miles:						
Total gross ton miles <sup>3</sup> .....	'000	4,455,218	2,961,174	2,643,122	255,525	10,315,039
Average gross ton miles per truck .....		266,800	77,200	27,300	6,500	54,000
Revenue:						
Total revenue .....	\$'000	169,654	—	—	—	—
Revenue per ton mile .....	¢	8.2	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	52.1	—	—	—	—
Average revenue per truck .....	\$	10,200	—	—	—	—
Estimated annual population .....		16,700	38,379	96,721	39,200	191,000

**TABLE 2. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0 - 5,000 lb.	2½ - 5 tons 5,001-10,000 lb.	5 - 7½ tons 10,001-15,000 lb.	7½ - 10 tons 15,001-20,000 lb.	10 - 15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	347,776	652,965	111,778	107,093	163,400	1,706,361
Average yearly mileage per truck .....		6,600	7,900	7,500	8,800	11,200	8,900
Average distance each ton was carried .....		21.3	25.4	19.7	17.1	17.0	28.5
Percentage of total mileage travelled empty .....		66.0	53.4	31.5	29.1	34.3	46.7
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	22,983	54,271	12,667	13,709	23,530	168,049
Miles per gallon of gasoline .....		15.1	12.0	8.8	7.8	6.9	9.5
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	19,187
Miles per gallon of diesel oil .....		—	—	—	—	—	6.0
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of good carried:</b>							
Total tons of goods carried .....	'000	1,644	7,231	7,639	13,246	30,573	133,214
Average weight carried <sup>1</sup> .....	ton	0.3	0.6	2.0	3.0	4.8	4.2
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	35,080	183,931	150,577	227,133	519,074	3,802,009
Average net ton miles per truck .....		700	2,200	10,100	18,700	35,500	19,900
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	244,681	848,186	376,518	573,095	1,391,386	8,732,274
Average capacity ton miles per truck .....		4,600	10,300	25,300	47,100	95,100	45,700
Percentage of capacity utilized .....		14.3	21.7	40.0	39.6	37.3	43.5
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	514,908	1,479,625	514,450	641,178	1,311,413	10,315,039
Average gross ton miles per truck .....		9,800	18,000	34,500	52,700	89,600	54,000
Estimated annual population .....		52,646	82,200	14,909	12,160	14,637	191,000

See footnotes at end of Table 6, page 10.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under .....	6,519	77,635	142,224	1.8	21.8	46,312	32.6
20,001-30,000 lb. ....	7,642	33,568	163,372	4.9	21.4	23,357	14.3
30,001-50,000 lb. ....	12,685	51,636	442,272	8.6	34.9	40,364	9.1
50,001 lb. and over .....	9,326	88,597	1,322,803	14.9	141.8	59,621	4.5
<b>Totals</b> .....	<b>36,172</b>	<b>251,436</b>	<b>2,070,671</b>	<b>8.2</b>	<b>57.2</b>	<b>169,654</b>	<b>8.2</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	1,886	100,593	59,247		0.6		31.4
10,001-20,000 lb. ....	4,649	36,744	102,169		2.8		22.0
20,001-30,000 lb. ....	11,315	42,429	255,420		6.0		22.6
30,001-50,000 lb. ....	14,788	33,586	325,555		9.7		22.0
50,001 lb. and over .....	6,411	20,654	351,338		17.0		54.8
<b>Totals</b> .....	<b>39,049</b>	<b>234,006</b>	<b>1,093,729</b>		<b>4.7</b>		<b>28.0</b>

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	114	1,988	13,930	7.0	122.1	1,124	8.1
Food, feed, beverages and tobacco .....	5,496	60,137	437,145	7.3	79.5	31,478	7.2
Crude materials, inedible .....	11,407	16,740	192,291	11.5	16.9	13,288	6.9
Fabricated materials, inedible .....	6,554	34,591	474,246	13.7	72.4	29,012	6.1
End products, inedible .....	2,600	40,899	198,217	4.8	76.2	27,139	13.7
General freight .....	10,001	97,081	754,842	7.8	75.5	67,613	9.0
<b>Totals</b> .....	<b>36,172</b>	<b>251,436</b>	<b>2,070,671</b>	<b>8.2</b>	<b>57.2</b>	<b>169,654</b>	<b>8.2</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....	308	5,439	21,613		4.0		70.3
Food, feed, beverages and tobacco .....	5,115	89,017	252,203		2.8		49.3
Crude materials, inedible .....	23,761	35,848	385,406		10.8		16.2
Fabricated materials, inedible .....	7,352	34,240	308,253		9.0		41.9
End products, inedible .....	1,459	49,926	85,273		1.7		58.4
General freight .....	1,054	19,536	40,981		2.1		38.9
<b>Totals</b> .....	<b>39,049</b>	<b>234,006</b>	<b>1,093,729</b>		<b>4.7</b>		<b>28.0</b>

**SECTION II. TRAFFIC PERFORMED BY QUEPEC REGISTERED TRUCKS WITHIN THE PROVINCE  
JANUARY 1 - DECEMBER 31, 1962**

**TABLE 5. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
<b>Mileage:</b>						
Total mileage travelled .....	'000	274,065	505,700	738,475	117,358	1,635,598
Average yearly mileage per truck .....		16,400	13,200	7,600	3,000	8,600
Average distance each ton was carried .....		38.6	25.9	10.8	16.3	22.8
Percentage of total mileage travelled empty .....		25.2	56.3	48.3	64.6	48.1
<b>Fuel:</b>						
Total gallons of gasoline consumed .....	'000	34,229	51,492	67,793	9,248	162,762
Miles per gallon of gasoline .....		6.7	9.5	10.7	12.7	9.6
Total gallons of diesel oil consumed .....	'000	7,565	3,108	2,271	—	12,944
Miles per gallon of diesel oil .....		6.0	6.1	5.5	—	5.9
Total gallons of other fuel consumed .....	'000	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
<b>Weight of good carried:</b>						
Total tons of goods carried .....	'000	36,069	38,908	55,582	2,411	132,970
Average weight carried <sup>1</sup> .....	ton	6.8	4.6	1.6	0.9	3.6
<b>Net ton miles:</b>						
Total net ton miles performed .....	'000	1,392,136	1,007,007	598,278	39,331	3,036,752
Average net ton miles per truck .....		83,400	26,200	6,200	1,000	15,900
<b>Capacity ton miles:</b>						
Total capacity ton miles <sup>2</sup> .....	'000	2,820,568	2,601,691	1,967,462	152,534	7,542,255
Average capacity ton miles per truck .....		168,900	67,800	20,300	3,900	39,500
Percentage of capacity utilized .....		49.3	38.7	30.4	25.8	40.3
<b>Gross ton miles:</b>						
Total gross ton miles <sup>3</sup> .....	'000	3,179,093	2,768,420	2,643,122	255,525	8,846,160
Average gross ton miles per truck .....		190,400	72,100	27,300	6,500	46,300
<b>Revenue:</b>						
Total revenue .....	\$'000	154,684	—	—	—	—
Revenue per ton mile .....	¢	11.1	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	56.4	—	—	—	—
Average revenue per truck .....	\$	9,300	—	—	—	—
Estimated annual population .....		16,700	38,379	96,721	39,200	191,000

**TABLE 6. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	344,387	648,525	110,573	106,626	161,037	264,450
Average yearly mileage per truck .....		6,500	7,900	7,400	8,800	11,000	18,300
Average distance each ton was carried .....		20.7	25.4	19.4	17.1	16.7	26.6
Percentage of total mileage travelled empty .....		66.2	53.6	31.6	29.2	34.2	33.8
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	22,757	53,968	12,513	13,652	23,205	36,667
Miles per gallon of gasoline .....		15.1	12.0	8.8	7.8	6.9	5.1
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	12,944
Miles per gallon of diesel oil .....		—	—	—	—	—	5.9
Total gallons of other fuel consumed .....	'000	—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	1,640	7,231	7,639	13,237	30,573	72,650
Average weight carried <sup>1</sup> .....	ton	0.3	0.6	2.0	3.0	4.8	11.0
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	34,034	183,582	148,334	226,124	510,994	1,933,684
Average net ton miles per truck .....		600	2,200	9,900	18,600	34,900	133,800
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	241,105	842,966	371,752	570,772	1,371,056	4,144,604
Average capacity ton miles per truck .....		4,600	10,300	24,900	46,900	93,700	286,900
Percentage of capacity utilized .....		14.1	21.8	39.9	39.6	37.3	46.7
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	508,966	1,470,412	507,965	638,452	1,291,656	4,428,709
Average gross ton miles per truck .....		9,700	17,900	34,100	52,500	88,200	306,500
Estimated annual population .....		52,646	82,200	14,909	12,160	14,637	14,448

<sup>1</sup> Net ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.



**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS  
JANUARY 1 – DECEMBER 31, 1962**

**TABLE 7. Tons of Goods Carried by Province of Origin and Destination**

Origin and destination	For hire			Private intercity			Total		
	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total
	'000 tons								
Newfoundland .....	—	1	1	—	—	—	—	1	1
Prince Edward Island .....	1	1	2	—	—	—	1	1	2
Nova Scotia .....	13	—	13	2	3	5	15	3	18
New Brunswick .....	16	36	52	13	12	25	29	48	77
Ontario .....	530	612	1,142	97	441	538	627	1,053	1,680
Manitoba .....	8	8	16	—	—	—	8	8	16
Saskatchewan .....	—	—	—	—	—	—	—	—	—
Alberta .....	56	59	115	—	1	1	56	60	116
British Columbia .....	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories .....	—	—	—	—	—	—	—	—	—
United States .....	107	162	269	70	236	306	177	398	575
<b>Totals .....</b>	<b>731</b>	<b>879</b>	<b>1,610</b>	<b>182</b>	<b>693</b>	<b>875</b>	<b>913</b>	<b>1,572</b>	<b>2,485</b>

**TABLE 8. Selected Statistics by Commodity Group**

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	—	—	—	—	—	—	—
Food, feed, beverages and tobacco .....	287	13,966	208,347	14.9	724.0	4,878	2.3
Crude materials, inedible .....	125	2,051	32,339	15.8	258.6	1,066	3.3
Fabricated materials, inedible .....	456	8,496	123,914	14.6	271.9	5,084	4.1
End products, inedible .....	215	7,174	72,761	10.1	338.9	4,707	6.5
General freight .....	527	19,952	296,275	14.8	562.4	7,944	2.7
<b>Totals .....</b>	<b>1,610</b>	<b>51,639</b>	<b>733,636</b>	<b>14.2</b>	<b>455.7</b>	<b>23,679</b>	<b>3.2</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....	8	279	2,566	9.2	331.3		
Food, feed, beverages and tobacco .....	166	5,324	37,068	7.0	222.8		
Crude materials, inedible .....	453	2,426	37,632	15.5	83.2		
Fabricated materials, inedible .....	180	2,391	31,180	13.0	173.6		
End products, inedible .....	39	4,831	8,241	1.7	209.1		
General freight .....	29	1,296	8,296	6.4	283.6		
<b>Totals .....</b>	<b>875</b>	<b>16,547</b>	<b>124,983</b>	<b>7.6</b>	<b>142.9</b>		

## APPENDIX

Type of operation	A. Population						
	0 - 2½ tons 0 - 5,000 lb.	2½ - 5 tons 5,001 - 10,000 lb.	5 - 7½ tons 10,001 - 15,000 lb.	7½ - 10 tons 15,001 - 20,000 lb.	10 - 15 tons 20,001 - 30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Quebec truck population in 1962							
For hire .....	403	3,002	2,404	2,786	3,016	5,089	16,700
Private:							
Intercity .....	8,041	14,998	2,603	2,872	5,310	4,555	38,379
Urban .....	25,963	45,661	8,053	6,002	6,238	4,804	96,721
Farm .....	18,239	18,539	1,849	500	73	—	39,200
<b>Totals .....</b>	<b>52,646</b>	<b>82,200</b>	<b>14,909</b>	<b>12,160</b>	<b>14,637</b>	<b>14,448</b>	<b>191,000</b>
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable	
For hire.....	4,742	2,488		905		1,349	
Private:							
Intercity .....	6,190	2,701		1,936		1,553	
Urban.....	9,449	4,134		2,816		2,499	
Farm .....	1,356	561		371		424	
<b>Totals .....</b>	<b>21,737</b>	<b>9,884</b>		<b>6,028</b>		<b>5,825</b>	

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53-209

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*Compte rendu de la Commission*

**MOTOR TRANSPORT TRAFFIC**  
**PROVINCE OF QUEBEC**  
**1963**



*Published by Authority of*  
The Minister of Trade and Commerce

**DOMINION BUREAU OF STATISTICS**  
Public Finance and Transportation Division  
Transportation Section

March 1965  
8504-559

Price: 50 cents

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PROVINCE OF QUEBEC  
JANUARY 1-DECEMBER 31, 1963

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

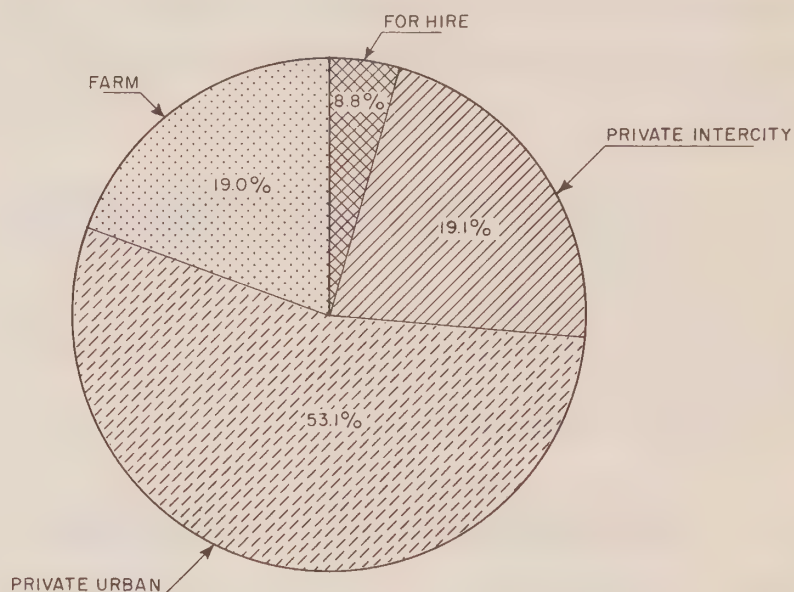
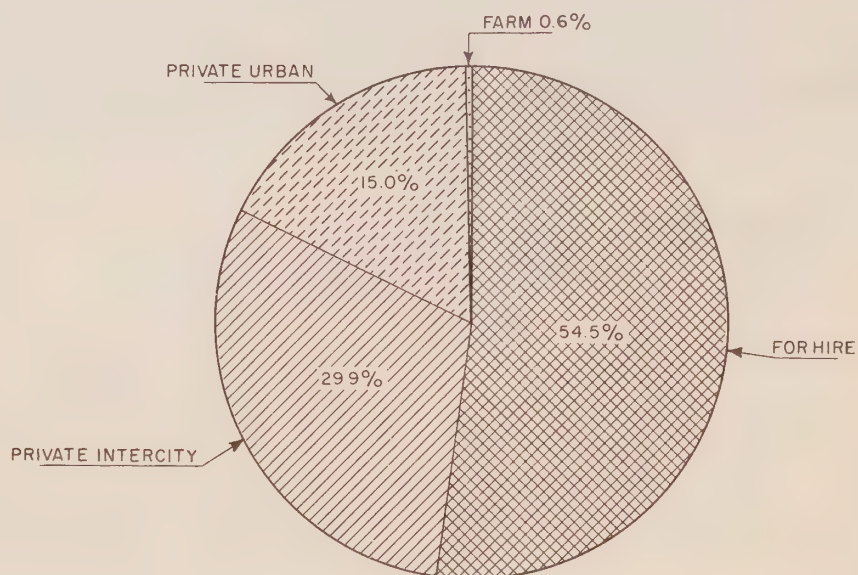


CHART-2

NET TON MILES BY TYPE OF OPERATION



## INTRODUCTION

The 1963 annual report of motor transport traffic in the Province of Quebec is based upon a sample of approximately 10 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In this report vehicles have been classified into the four functional categories as follows:

- |                   |   |
|-------------------|---|
| For hire          | — "L" licensed vehicles operated in intercity service and/or urban areas. |
| Private intercity | — "F" licensed vehicles operated beyond urban areas.                      |
| Private urban     | — "F" licensed vehicles operated only within urban areas.                 |
| Farm              | — "N" licensed vehicles.  |

Since Quebec motor vehicles are licensed on a tare weight basis, it was necessary to estimate equivalent gross vehicle weights to provide comparability with other annual provincial reports. For each truck in the sample the gross vehicle weight was estimated from the recorded tare weight and either the estimated carrying capacity or the weight of the heaviest load carried. The gross vehicle weight of each tractor-trailer combination was estimated from the tare weight of the tractor, the estimated tare weight of the trailer plus the weight of the heaviest load carried. It is emphasized that this method provides only approximately equivalent gross vehicle weights and therefore exact provincial comparability of the weight group classification cannot be assured.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", Catalogue No. 53-207, for 1957 to 1962.

## Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.

2. The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selections are stratified by weight group. Therefore it is only necessary to multiply the sample in each weight group by the inverse of the appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant population. The population then has to be distributed by function. The average distribution of "L" and "N" licensed vehicles for the four quarterly sample populations of the previous year are used as an estimate of the for hire and farm truck populations respectively. The average distribution obtained from the previous year's completed questionnaires is used to segregate "F" licensed vehicles into either the private intercity or private urban category. The above procedure was



introduced in 1959. Prior to that year the distribution by function was determined for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner.
4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.

6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

### Review of Survey Results

The estimated population of trucks performing transportation services in Quebec during the year rose 5.5 per cent to 201,600 from 191,000 in 1962. Of these 17,800 or 8.8 per cent were for hire trucks; 38,566 or 19.1 per cent were private intercity vehicles; 107,034 or 53.1 per cent were private vehicles operating wholly within urban areas; and 38,200 or 19.0 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Quebec registered trucks.

Although comprising only 8.8 per cent of Quebec's truck population, for hire vehicles accounted for 54.5 per cent of the total net ton miles and 28.5 per cent of the total tons of goods carried during 1963. This results from the high average yearly mileage of these trucks 20,300 miles as compared with 8,700 miles for all trucks, and from the heavy average load carried of 8.3 tons compared to 4.3 tons for all trucks. Since over fifty-five per cent of all for hire vehicles have a gross vehicle weight of over ten tons the heavier loads carried by these trucks are to be expected. The predom-

inance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline, 6.7 compared with 9.4 for all trucks. It is estimated that urban operations accounted for 12.9 per cent of the total net ton miles performed by Quebec registered for hire trucks and 2.8 per cent of the total net ton miles performed by private intercity vehicles.

Some trucks in Quebec under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 9.0 per cent of the total mileage travelled by Quebec registered trucks.

### Section II: Traffic Inside the Province

This section presents estimates of traffic performed by Quebec registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 71.8 per cent and private intercity 90.3 per cent of their total net ton miles inside Quebec.

### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately one third of the total net ton miles performed and one seventh of the revenue earned by these vehicles. About two thirds of the total tons of goods carried in this type of traffic by Quebec registered for hire trucks was transported to or from Ontario and one fifth to or from the United States.

### Appendix

During the year survey questionnaires were sent to the owners or operators of 20,788 trucks. Of this number 8,595 were returned completed and 5,084 trucks were reported not used during the

survey week. The remaining 7,109 were either returned incomplete and unusable or not returned at all.

February 8, 1965.



**SECTION I. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE  
JANUARY 1 – DECEMBER 31, 1963**

**TABLE 1. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled .....	'000	361,007	532,854	752,206	112,666	1,758,733
Average yearly mileage per truck .....		20,300	13,800	7,000	2,900	8,700
Average distance each ton was carried .....		52.7	32.5	9.2	13.7	27.5
Percentage of total mileage travelled empty .....		23.5	50.9	45.3	64.7	43.8
Fuel:						
Total gallons of gasoline consumed.....	'000	40,494	54,369	69,010	8,675	172,548
Miles per gallon of gasoline .....		6.7	9.2	10.7	13.0	9.4
Total gallons of diesel oil consumed.....	'000	15,834	5,560	2,277	—	23,671
Miles per gallon of diesel oil .....		5.6	6.0	5.0	—	5.6
Total gallons of other fuel consumed.....		—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried .....	'000	43,592	38,736	68,798	1,854	152,980
Average weight carried <sup>1</sup> .....	ton	8.3	4.8	1.5	0.6	4.3
Net ton miles:						
Total net ton miles performed .....	'000	2,297,979	1,259,958	630,669	25,391	4,213,997
Average net ton miles per truck .....		129,100	32,700	5,900	700	20,900
Capacity ton miles:						
Total capacity ton miles <sup>2</sup> .....	'000	4,467,076	3,265,628	2,182,992	130,699	10,046,395
Average capacity ton miles per truck.....		251,000	84,700	20,400	3,400	49,800
Percentage of capacity utilized .....		51.4	38.6	28.9	19.4	41.9
Gross ton miles:						
Total gross ton miles <sup>3</sup> .....	'000	4,943,321	3,376,014	2,663,522	234,691	11,217,548
Average gross ton miles per truck .....		277,700	87,500	24,900	6,100	55,600
Revenue:						
Total revenue.....	\$'000	202,555	—	—	—	—
Revenue per ton mile .....	¢	8.8	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	56.1	—	—	—	—
Average revenue per truck .....	\$	11,400	—	—	—	—
Estimated annual population .....		17,800	38,566	107,034	38,200	201,600

**TABLE 2. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	318,926	644,047	105,303	103,195	201,973	1,758,733
Average yearly mileage per truck .....		5,800	7,500	7,500	8,500	11,400	8,700
Average distance each ton was carried .....		16.3	18.6	14.6	13.4	17.4	27.5
Percentage of total mileage travelled empty .....		57.0	52.7	32.1	29.5	31.5	43.8
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	20,817	53,035	11,573	13,763	27,788	172,548
Miles per gallon of gasoline .....		15.3	12.1	9.1	7.5	7.3	9.4
Total gallons of diesel oil consumed .....	'000	—	—	—	—	23,671	23,671
Miles per gallon of diesel oil .....		—	—	—	—	5.6	5.6
Total gallons of other fuel consumed .....		—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	1,540	7,383	6,971	12,932	35,796	152,980
Average weight carried <sup>1</sup> .....	ton	0.2	0.5	1.4	2.4	4.5	4.3
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	25,149	137,307	101,544	173,296	621,072	4,213,997
Average net ton miles per truck .....		500	1,600	7,200	14,300	35,100	20,900
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	227,722	824,628	345,196	550,746	1,717,143	10,046,395
Average capacity ton miles per truck .....		4,100	9,600	24,600	45,600	97,000	49,800
Percentage of capacity utilized .....		11.0	16.7	29.4	31.5	36.2	41.9
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	460,255	1,414,903	443,116	567,524	1,571,662	11,217,548
Average gross ton miles per truck .....		8,400	16,500	31,600	47,000	88,700	55,600
Estimated annual population .....		55,025	85,737	14,018	12,082	17,711	201,600

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under .....	6,213	71,771	114,600	1.6	18.4	36,375	31.7
20,001-30,000 lb. ....	11,142	49,840	211,875	4.3	19.0	36,779	17.4
30,001-50,000 lb. ....	12,240	46,391	369,514	8.0	30.2	37,935	10.3
50,001 lb. and over .....	13,997	108,126	1,601,990	14.8	114.5	91,466	5.7
<b>Totals</b> .....	<b>43,592</b>	<b>276,128</b>	<b>2,297,979</b>	<b>8.3</b>	<b>52.7</b>	<b>202,555</b>	<b>8.8</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	1,503	99,576	45,091	0.5			30.0
10,001-20,000 lb. ....	3,710	39,262	84,143	2.1			22.7
20,001-30,000 lb. ....	9,453	50,589	275,346	5.4			29.1
30,001-50,000 lb. ....	15,455	45,444	429,521	9.5			27.8
50,001 lb. and over .....	8,615	26,653	425,857	16.0			49.4
<b>Totals</b> .....	<b>38,736</b>	<b>261,524</b>	<b>1,259,958</b>	<b>4.8</b>			<b>32.5</b>

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	220	3,538	18,701	5.3	84.8	1,897	10.1
Food, feed, beverages and tobacco .....	5,928	47,491	397,308	8.4	67.0	29,747	7.5
Crude materials, inedible .....	12,271	17,350	220,838	12.7	18.0	13,855	6.3
Fabricated materials, inedible .....	8,911	41,367	610,902	14.7	68.6	38,357	6.3
End products, inedible .....	2,748	53,413	196,770	3.7	71.6	30,228	15.4
General freight .....	13,514	112,969	853,460	7.6	63.2	88,471	10.4
<b>Totals</b> .....	<b>43,592</b>	<b>276,128</b>	<b>2,297,979</b>	<b>8.3</b>	<b>52.7</b>	<b>202,555</b>	<b>8.8</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....	229	4,490	18,535	4.1			80.9
Food, feed, beverages and tobacco .....	5,670	101,378	285,749	2.8			50.4
Crude materials, inedible .....	21,125	41,415	458,319	11.1			21.7
Fabricated materials, inedible .....	7,668	36,270	331,347	9.1			43.2
End products, inedible .....	1,584	53,916	96,985	1.8			61.2
General freight .....	2,460	24,055	69,023	2.9			28.1
<b>Totals</b> .....	<b>38,736</b>	<b>261,524</b>	<b>1,259,958</b>	<b>4.8</b>			<b>32.5</b>

**SECTION II. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS WITHIN THE PROVINCE  
JANUARY 1 – DECEMBER 31, 1963**

**TABLE 5. All Trucks by Type of Operation**

		For hire	Private			Total
			Intercity	Urban	Farm	
Mileage:						
Total mileage travelled .....	'000	310,704	515,097	752,206	112,666	1,690,673
Average yearly mileage per truck .....		17,500	13,400	7,000	2,900	8,400
Average distance each ton was carried .....		37.9	29.5	9.2	13.7	22.6
Percentage of total mileage travelled empty .....		25.5	51.1	45.3	64.7	44.8
Fuel:						
Total gallons of gasoline consumed .....	'000	35,798	52,284	69,010	8,675	165,767
Miles per gallon of gasoline .....		7.0	9.3	10.7	13.0	9.6
Total gallons of diesel oil consumed .....	'000	10,863	4,717	2,277	—	17,857
Miles per gallon of diesel oil .....		5.6	6.1	5.0	—	5.7
Total gallons of other fuel consumed .....		—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—
Weight of goods carried:						
Total tons of goods carried .....	'000	43,511	38,514	68,798	1,854	152,677
Average weight carried <sup>1</sup> .....	ton	7.1	4.6	1.5	0.6	3.7
Net ton miles:						
Total net ton miles performed .....	'000	1,651,060	1,137,578	630,669	25,391	3,444,698
Average net ton miles per truck .....		92,800	29,500	5,900	700	17,100
Capacity ton miles:						
Total capacity ton miles <sup>2</sup> .....	'000	3,491,467	3,011,714	2,182,992	130,699	8,816,872
Average capacity ton miles per truck .....		196,200	78,100	20,400	3,400	43,700
Percentage of capacity utilized .....		47.3	37.8	28.9	19.4	39.1
Gross ton miles:						
Total gross ton miles <sup>3</sup> .....	'000	3,716,666	3,108,804	2,663,522	234,691	9,723,683
Average gross ton miles per truck .....		208,800	80,600	24,900	6,100	48,200
Revenue:						
Total revenue .....	\$'000	180,312	—	—	—	—
Revenue per ton mile .....	¢	10.9	—	—	—	—
Revenue per mile (total mileage travelled) .....	¢	58.0	—	—	—	—
Average revenue per truck .....	\$	13,000	—	—	—	—
Estimated annual population .....		17,800	38,566	107,034	38,200	201,600

**TABLE 6. All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled .....	'000	318,878	643,725	104,161	102,889	197,744	1,690,673
Average yearly mileage per truck .....		5,800	7,500	7,400	8,500	11,200	8,400
Average distance each ton was carried .....		16.3	18.6	14.4	13.5	16.9	22.6
Percentage of total mileage travelled empty .....		57.0	52.7	32.0	29.4	31.4	44.8
<b>Fuel:</b>							
Total gallons of gasoline consumed .....	'000	20,815	53,008	11,439	13,706	27,245	165,767
Miles per gallon of gasoline .....		15.3	12.1	9.1	7.5	7.3	9.6
Total gallons of diesel oil consumed .....	'000	—	—	—	—	—	17,857
Miles per gallon of diesel oil .....		—	—	—	—	—	5.7
Total gallons of other fuel consumed .....		—	—	—	—	—	—
Miles per gallon of other fuel .....		—	—	—	—	—	—
<b>Weight of goods carried:</b>							
Total tons of goods carried .....	'000	1,540	7,383	6,970	12,805	35,790	152,677
Average weight carried <sup>1</sup> .....	ton	0.2	0.5	1.4	2.4	4.5	3.7
<b>Net ton miles:</b>							
Total net ton miles performed .....	'000	25,149	137,307	100,585	172,643	605,626	3,444,698
Average net ton miles per truck .....		500	1,600	7,200	14,300	34,200	17,100
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> .....	'000	227,679	824,325	341,786	549,075	1,680,326	8,816,872
Average capacity ton miles per truck .....		4,100	9,600	24,400	45,400	94,900	43,700
Percentage of capacity utilized .....		11.0	16.7	29.4	31.4	36.0	39.1
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> .....	'000	460,212	1,414,271	438,342	565,785	1,536,131	9,723,683
Average gross ton miles per truck .....		8,400	16,500	31,300	46,800	86,700	48,200
Estimated annual population .....		55,025	85,737	14,018	12,082	17,711	201,600

<sup>1</sup> Net ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.



**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS  
JANUARY 1 – DECEMBER 31, 1963**

**TABLE 7. Tons of Goods Carried by Province of Origin and Destination**

Origin and destination	For hire			Private intercity			Total		
	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total
	*000 tons								
Newfoundland .....	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	6	9	15	—	—	—	6	9	15
Nova Scotia .....	4	12	16	—	—	—	4	12	16
New Brunswick .....	27	92	119	4	11	15	31	103	134
Ontario .....	604	691	1,295	165	407	572	769	1,098	1,867
Manitoba .....	15	16	31	—	—	—	15	16	31
Saskatchewan .....	—	—	—	—	—	—	—	—	—
Alberta .....	24	24	48	—	—	—	24	24	48
British Columbia .....	—	—	—	—	—	—	—	—	—
Yukon and Northwest Territories .....	—	—	—	—	—	—	—	—	—
United States .....	209	219	428	127	191	318	336	410	746
<b>Totals .....</b>	<b>889</b>	<b>1,063</b>	<b>1,952</b>	<b>296</b>	<b>609</b>	<b>905</b>	<b>1,185</b>	<b>1,672</b>	<b>2,857</b>

**TABLE 8. Selected Statistics by Commodity Group**

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	*000 tons	*000	*000	tons	miles	\$*000	¢
Live animals .....	—	—	—	—	—	—	—
Food, feed, beverages and tobacco .....	385	11,598	179,768	15.5	467.0	5,519	3.1
Crude materials, inedible .....	131	1,830	31,711	17.3	242.0	836	2.6
Fabricated materials, inedible .....	472	7,799	125,359	16.1	265.9	5,311	4.2
End products, inedible .....	266	8,701	79,424	9.1	298.2	5,460	6.9
General freight .....	698	21,796	298,477	13.7	427.4	12,088	4.0
<b>Totals .....</b>	<b>1,952</b>	<b>51,724</b>	<b>714,739</b>	<b>13.8</b>	<b>366.1</b>	<b>29,214</b>	<b>4.1</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	*000 tons	*000	*000	tons	miles		
Live animals .....	—	—	—	—	—		—
Food, feed, beverages and tobacco .....	325	4,777	50,862	10.6	225.4		225.4
Crude materials, inedible .....	283	2,533	30,813	12.2	109.0		109.0
Fabricated materials, inedible .....	285	4,512	50,773	11.3	178.1		178.1
End products, inedible .....	85	2,952	21,059	7.1	248.9		248.9
General freight .....	27	880	6,037	6.9	226.6		226.6
<b>Totals .....</b>	<b>905</b>	<b>15,654</b>	<b>159,544</b>	<b>10.2</b>	<b>176.3</b>		<b>176.3</b>



## APPENDIX

Type of operation	A. Population						
	0 - 2½ tons 0 - 5,000 lb.	2½ - 5 tons 5,001 - 10,000 lb.	5 - 7½ tons 10,001 - 15,000 lb.	7½ - 10 tons 15,001 - 20,000 lb.	10 - 15 tons 20,001 - 30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Estimated Quebec truck population in 1963							
For hire .....	643	2,417	1,930	2,681	4,551	5,578	17,800
Private:							
Intercity .....	6,343	15,246	3,290	2,473	5,830	5,384	38,566
Urban .....	30,594	49,435	7,224	6,403	7,313	5,065	107,034
Farm .....	17,445	18,639	1,574	525	17	—	38,200
<b>Totals</b> .....	<b>55,025</b>	<b>85,737</b>	<b>14,018</b>	<b>12,082</b>	<b>17,711</b>	<b>17,027</b>	<b>201,600</b>
B. Survey Response							
	Total number of trucks selected in samples	Number of questionnaires returned completed		Number of sampled trucks reported not in use during survey week		Number of questionnaires not returned or returned incomplete and unusable	
For hire .....	4,570	2,220		774		1,576	
Private:							
Intercity .....	5,385	2,149		1,449		1,787	
Urban .....	9,677	3,854		2,545		3,278	
Farm .....	1,156	372		316		468	
<b>Totals</b> .....	<b>20,788</b>	<b>8,595</b>		<b>5,084</b>		<b>7,109</b>	



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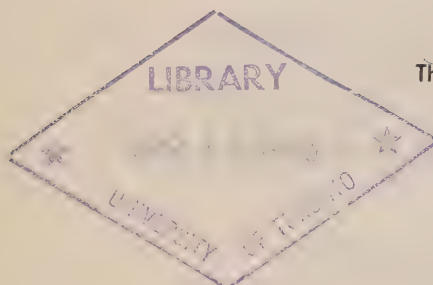


CANADA

# MOTOR TRANSPORT TRAFFIC

PROVINCE OF QUEBEC

( 1964



*Published by Authority of*  
The Minister of Trade and Commerce

**DOMINION BUREAU OF STATISTICS**

Public Finance and Transportation Division

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April 1966  
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PROVINCE OF QUEBEC  
JANUARY 1 – DECEMBER 31, 1964

CHART-1

TRUCK REGISTRATIONS BY TYPE OF OPERATION

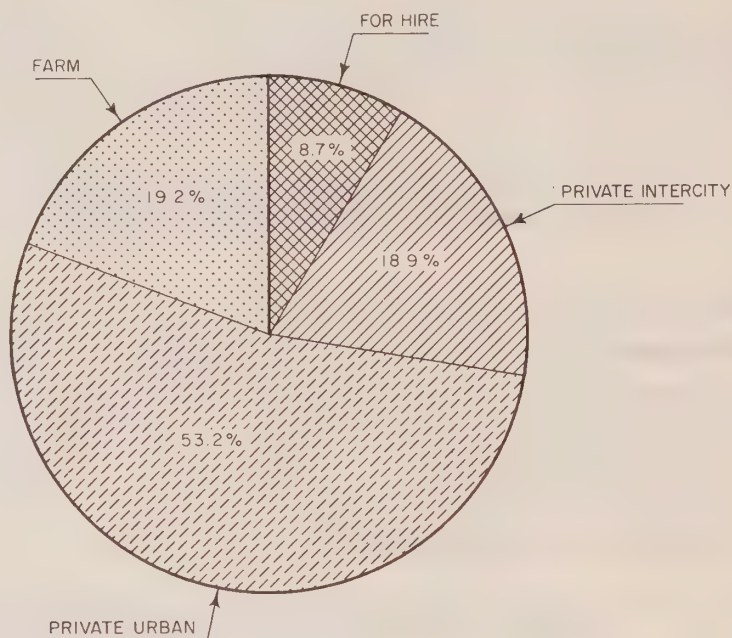
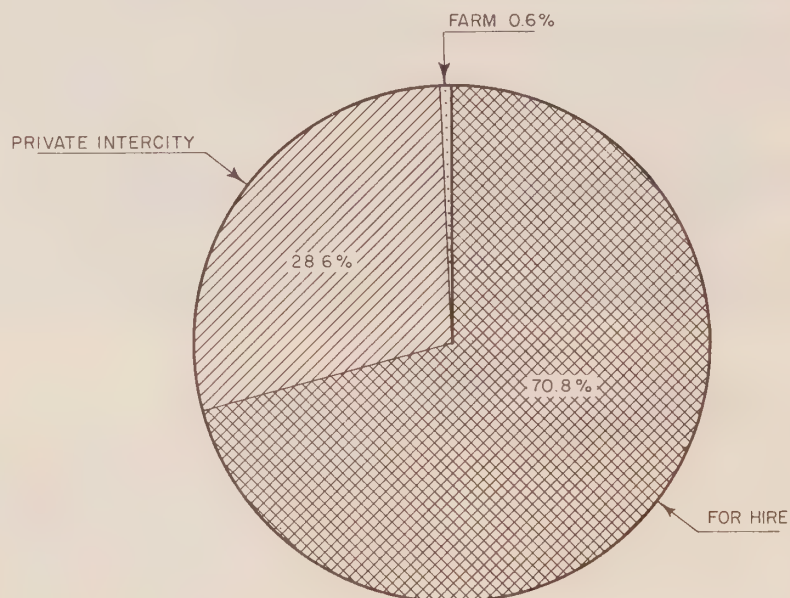


CHART-2

NET TON MILES BY TYPE OF OPERATION





## INTRODUCTION

The 1964 annual report of motor transport traffic in the Province of Quebec is based upon a sample of approximately 8 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In this report vehicles have been classified into the four functional categories as follows:

For hire                   —“L”      licensed      vehicles  
                                  operated in intercity service  
                                  and/or urban areas.

Private intercity —“F”      licensed      vehicles  
                                  operated beyond urban areas.

Private urban       —“F”      licensed      vehicles  
                                  operated only within urban  
                                  areas.

Farm                   —“N”      licensed vehicles.

Since Quebec motor vehicles are licensed on a tare weight basis, it was necessary to estimate equivalent gross vehicle weights to provide comparability with other annual provincial reports. For each truck in the sample the gross vehicle weight was estimated from the recorded tare weight and either the estimated carrying capacity or the weight of the heaviest load carried. The gross vehicle weight of each tractor-trailer combination was estimated from the tare weight of the tractor, the estimated tare weight of the trailer plus the weight of the heaviest load carried. It is emphasized that this method provides only approximately equivalent gross vehicle weights and therefore exact provincial comparability of the weight group classification cannot be assured.

Beginning in 1964 the only data recorded for vehicles performing **urban** or **local** operations, regardless of category, are **miles travelled** and **gallons of fuel used** and the estimated population. For this reason the 1964 figures shown under various traffic headings are not comparable to the statistics published for 1963.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled “Motor Transport Traffic, National Estimates”, Catalogue No. 53-207, for 1957 to 1963.

## Expansion of Survey Results

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

1. A truck population figure which remains constant for all four quarterly surveys is determined. This constant population is the peak figure of the previous year's quarterly sample population estimates. These estimates are made by multiplying the sample size in each quarter by the inverse of the sample selection ratios.
2. The constant population has to be broken down into gross vehicle weight groups and functions. Therefore it is necessary to multiply the quarterly sample in each weight group by the inverse of the

appropriate selection ratio to arrive at a quarterly population broken down by weight group. The four quarterly populations by gross vehicle weight are added together and an average weight group distribution for the year is computed. This weight group distribution is applied to the constant population. The population then has to be distributed by function. The average distribution of “L” and “N” licensed vehicles for the four quarterly sample populations of the previous year are used as an estimate of the for hire and farm truck populations respectively. The average distribution obtained from the previous year's completed questionnaires is used to segregate “F” licensed vehicles into either the private intercity or private urban category. Prior to 1959 the distribution by function was determined for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner.
4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
6. The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

### Review of Survey Results

The estimated population of trucks performing transportation services in Quebec during the year rose 2.9 per cent to 207,500 from 201,600 in 1963. Of these 18,000 or 8.7 per cent were for hire trucks; 39,278 or 18.9 per cent were private intercity vehicles; 110,422 or 53.2 per cent were private vehicles operating wholly within urban areas; and 39,800 or 19.2 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most instances an insufficient number of vehicles were chosen in these categories to produce reliable statistics. However, it does not necessarily follow that there were no vehicles in the province relating to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Quebec registered trucks.

Although comprising only 8.7 per cent of Quebec's truck population, for hire vehicles accounted for 70.8 per cent of the total net ton miles (excluding the urban portion) and 39.3 per cent of the total tons of goods (excluding urban) carried during 1964. This results from the high average yearly mileage of these trucks, 21,100 miles as compared with 8,800 miles for all trucks, and from the heavy average load carried of 12.1 tons compared to 7.9 tons for all trucks. Since over one half of all for hire vehicles have a gross vehicle weight of over ten tons the heavier loads carried by these trucks are to be expected. The predominance of heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline, 6.5 compared with 9.3 for all trucks.

Some trucks in Quebec under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 9 per cent of the total mileage travelled by Quebec registered trucks.

#### Section II: Traffic Within the Province

This section presents estimates of traffic performed by Quebec registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 48.6 per cent and private intercity 89.8 per cent of their total net ton miles inside Quebec.

#### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing approximately 44 per cent of the total net ton miles performed and 29 per cent of the revenue earned by these vehicles. Over two thirds of the total tons of goods carried in this type of traffic by Quebec registered for hire trucks was transported to or from Ontario and one sixth to or from the United States.

#### Appendix

The appendix contains a summary of the estimated truck population in 1964 by gross vehicle weight group.

January 25, 1966.



**SECTION I. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE  
JANUARY 1 – DECEMBER 31, 1964**

**TABLE 1. Total Operations (Intercity, Rural and Urban) of All Trucks**

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled ..... '000	379,023	492,946	829,534	115,152	1,816,655
Average yearly mileage per truck .....	21,100	12,600	7,500	2,900	8,800
Revenue per mile (total mileage travelled) ..... ¢	35.9	—	—	—	—
<b>Fuel:</b>					
Total gallons of gasoline consumed ..... '000	40,644	47,049	81,686	8,868	178,247
Miles per gallon of gasoline .....	6.5	10.0	9.9	13.0	9.3
Total gallons of diesel oil consumed ..... '000	19,971	3,983	4,154	—	28,108
Miles per gallon of diesel oil .....	5.6	5.8	4.4	—	5.5
Total gallons of other fuel consumed ..... '000	—	10	105	—	115
Miles per gallon of other fuel .....	—	5.5	2.6	—	8.5
Estimated annual population .....	18,000	39,278	110,422	39,800	207,500

**TABLE 1 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks**

	For hire	Private		Total	
		Intercity	Farm		
<b>Mileage:</b>					
Total mileage travelled .....	'000	379,023	492,946	115,152	987,121
Percentage of total mileage travelled empty .....		45.9	57.2	74.1	54.8
<b>Weight of goods carried:</b>					
Total tons of goods carried .....	'000	18,895	27,380	1,808	48,083
Average weight carried <sup>1</sup> .....	ton	12.1	4.8	0.7	7.9
Average distance each ton was carried .....		131.2	36.6	11.6	72.8
<b>Net ton miles:</b>					
Total net ton miles performed .....	'000	2,479,339	1,001,856	20,943	3,502,138
Average net ton miles per truck .....		137,700	25,500	500	36,100
<b>Capacity ton miles :</b>					
Total capacity ton miles <sup>2</sup> .....	'000	4,388,126	2,623,412	139,191	7,150,729
Average capacity ton miles per truck .....		243,800	66,800	3,500	73,700
Percentage of capacity utilized .....		56.5	38.2	15.0	49.0
<b>Gross ton miles:</b>					
Total gross ton miles <sup>3</sup> .....	'000	4,902,904	2,692,095	232,357	7,827,356
Average gross ton miles per truck .....		272,400	68,500	5,800	80,600
<b>Revenue:</b>					
Total revenue .....	\$'000	135,953	—	—	—
Revenue per ton mile .....	¢	5.5	—	—	—
Average revenue per truck .....	\$	7,600	—	—	—
Estimated annual population .....		18,000	39,278	39,800	97,078

See footnotes at end of Table 6 A, page 11.

**Note:** Table 1 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage). For further explanation of the difference between Table 1 and Table 1 A, see page 5, paragraph 6 of text.



TABLE 2. Total Operations (Intercity, Rural and Urban) of All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled ..... '000	344,922	681,123	116,406	116,444	179,848	377,912	1,816,655
Average yearly mileage per truck .....	6,000	7,500	7,700	9,100	11,600	24,400	8,800
<b>Fuel:</b>							
Total gallons of gasoline consumed ..... '000	24,461	57,924	12,825	15,284	25,488	42,265	178,247
Miles per gallon of gasoline .....	14.1	11.8	9.0	7.6	7.0	5.4	9.3
Total gallons of diesel oil consumed ..... '000	89	—	193	—	281	27,545	28,108
Miles per gallon of diesel oil .....	7.2	—	5.5	—	8.7	5.4	5.5
Total gallons of other fuel consumed ..... '000	—	—	—	—	—	115	115
Miles per gallon of other fuel .....	—	—	—	—	—	8.5	8.5
Estimated annual population .....	57,476	91,042	15,128	12,827	15,542	15,485	207,500

TABLE 2 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled ..... '000	145,946	268,251	56,816	69,307	130,000	316,801	987,121
Percentage of total mileage travelled empty	75.0	69.7	63.5	55.4	49.0	33.6	54.8
<b>Weight of goods carried:</b>							
Total tons of goods carried ..... '000	864	2,068	1,183	3,405	10,808	29,755	48,083
Average weight carried <sup>1</sup> ..... ton	0.3	0.6	2.2	3.6	5.4	13.9	7.9
Average distance each ton was carried ....	13.4	23.4	39.1	32.9	32.9	98.4	72.8
<b>Net ton miles:</b>							
Total net ton miles performed ..... '000	11,542	48,498	46,240	112,004	355,398	2,928,456	3,502,138
Average net ton miles per truck .....	400	1,300	6,900	18,100	40,700	301,400	36,100
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> ..... '000	107,545	297,514	143,114	270,601	916,965	5,414,990	7,150,729
Average capacity ton miles per truck .....	3,800	7,900	21,200	43,700	105,100	557,400	73,700
Percentage of capacity utilized .....	10.7	16.3	32.3	41.4	38.8	54.1	49.0
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> ..... '000	206,249	495,096	166,334	293,663	853,618	5,812,396	7,827,356
Average gross ton miles per truck .....	7,400	13,100	24,600	47,400	97,900	598,300	80,600
Estimated annual population .....	27,985	37,707	6,750	6,198	8,723	9,715	97,078

See footnotes at end of Table 6 A, page 11.

**Note:** Table 2 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage). For further explanation of the difference between Table 2 and Table 2 A, see page 5, paragraph 6 of text.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

Gross vehicle weight	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
20,000 lb. and under .....	1,111	15,662	48,943	3.1	44.0	9,218	18.8
20,001-30,000 lb. ....	3,599	28,088	137,577	4.9	38.2	18,444	13.4
30,001-50,000 " .....	4,859	37,716	285,531	7.6	58.8	25,780	9.0
50,001 lb. and over .....	9,326	123,674	2,007,288	16.2	215.2	82,511	4.1
<b>Totals</b> .....	<b>18,895</b>	<b>205,140</b>	<b>2,479,339</b>	<b>12.1</b>	<b>131.2</b>	<b>135,953</b>	<b>5.5</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
10,000 lb. and under .....	1,364	89,732	45,140		0.5		33.1
10,001-20,000 lb. ....	3,237	34,097	103,258		3.0		31.9
20,001-30,000 " .....	7,209	38,240	217,821		5.7		30.2
30,001-50,000 " .....	8,338	28,611	277,249		9.7		33.3
50,001 lb. and over .....	7,232	20,219	358,388		17.7		49.6
<b>Totals</b> .....	<b>27,380</b>	<b>210,899</b>	<b>1,001,856</b>		<b>4.8</b>		<b>36.6</b>

TABLE 4. Selected Statistics by Commodity Group

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	248	3,902	28,746	7.4	115.9	5,217	18.1
Food, feed, beverages and tobacco .....	4,351	49,510	569,356	11.5	130.9	26,842	4.7
Crude materials, inedible .....	4,466	13,526	213,178	15.8	47.7	9,664	4.5
Fabricated materials, inedible .....	5,196	37,115	603,107	16.2	116.1	29,212	4.8
End products, inedible .....	1,515	34,940	225,091	6.4	148.6	20,975	9.3
General freight .....	3,119	66,147	839,861	12.7	269.2	44,043	5.2
<b>Totals</b> .....	<b>18,895</b>	<b>205,140</b>	<b>2,479,339</b>	<b>12.1</b>	<b>131.2</b>	<b>135,953</b>	<b>5.5</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....	243	4,680	14,285		3.1		58.8
Food, feed, beverages and tobacco .....	3,883	81,961	204,642		2.5		52.7
Crude materials, inedible .....	15,771	36,871	400,637		10.9		25.4
Fabricated materials, inedible .....	5,182	26,050	254,048		9.8		49.0
End products, inedible .....	1,416	45,110	87,245		1.9		61.6
General freight .....	885	16,227	40,999		2.5		46.3
<b>Totals</b> .....	<b>27,380</b>	<b>210,899</b>	<b>1,001,856</b>		<b>4.8</b>		<b>36.6</b>

**SECTION II. TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS WITHIN THE PROVINCE  
JANUARY 1 – DECEMBER 31, 1964**

**TABLE 5. Total Operations (Intercity, Rural and Urban) of All Trucks**

	For hire	Private			Total
		Intercity	Urban	Farm	
<b>Mileage:</b>					
Total mileage travelled..... '000	284, 243	475, 800	829, 534	115, 152	1, 704, 729
Average yearly mileage per truck .....	15, 800	12, 100	7, 500	2, 900	8, 200
Revenue per mile (total mileage travelled) ..... ¢	33. 8	—	—	—	—
<b>Fuel:</b>					
Total gallons of gasoline consumed ..... '000	34, 139	45, 325	81, 686	8, 868	170, 018
Miles per gallon of gasoline.....	6. 8	10. 1	9. 9	13. 0	9. 5
Total gallons of diesel oil consumed ..... '000	9, 355	3, 231	4, 154	—	16, 740
Miles per gallon of diesel oil.....	5. 6	5. 7	4. 4	—	5. 3
Total gallons of other fuel consumed ..... '000	—	10	105	—	115
Miles per gallon of other fuel.....	—	5. 5	2. 6	—	8. 5
Estimated annual population.....	18, 000	39, 278	110, 422	39, 800	207, 500

**TABLE 5 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks**

	For hire	Private		Total
		Intercity	Farm	
<b>Mileage:</b>				
Total mileage travelled ..... '000	284, 243	475, 800	115, 152	875, 195
Percentage of total mileage travelled empty .....	56. 6	57. 7	74. 1	30. 5
<b>Weight of goods carried:</b>				
Total tons of goods carried ..... '000	18, 231	27, 283	1, 808	47, 322
Average weight carried <sup>1</sup> ..... ton	9. 8	4. 5	0. 7	6. 0
Average distance each ton was carried .....	66. 0	33. 0	11. 6	44. 9
<b>Net ton miles:</b>				
Total net ton miles performed ..... '000	1, 203, 756	899, 708	20, 943	2, 124, 407
Average net ton miles per truck .....	66, 900	22, 900	500	21, 900
<b>Capacity ton miles:</b>				
Total capacity ton miles <sup>2</sup> ..... '000	2, 458, 185	2, 396, 658	139, 191	4, 994, 034
Average capacity ton miles per truck .....	136, 600	61, 000	3, 500	51, 400
Percentage of capacity utilized .....	49. 0	37. 5	15. 0	42. 5
<b>Gross ton miles:</b>				
Total gross ton miles <sup>3</sup> ..... '000	2, 518, 957	2, 467, 172	232, 357	5, 218, 486
Average gross ton miles per truck .....	139, 900	62, 800	5, 800	53, 800
<b>Revenue:</b>				
Total revenue ..... \$'000	96, 110	—	—	—
Revenue per ton mile ..... ¢	8. 0	—	—	—
Average revenue per truck ..... \$	5, 300	—	—	—
Estimated annual population .....	18, 000	39, 278	39, 800	97, 078

See footnotes at end of Table 6 A, page 11.

Note: Table 5 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 5 and Table 5 A, see page 5, paragraph 6 of text.



**TABLE 6. Total Operations (Intercity, Rural and Urban) of All Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled ..... '000	344,922	678,045	115,023	114,600	175,395	276,744	1,704,729
Average yearly mileage per truck .....	6,000	7,400	7,600	8,900	11,300	17,900	8,200
<b>Fuel:</b>							
Total gallons of gasoline consumed ..... '000	24,461	57,658	12,667	14,997	24,946	35,289	170,018
Miles per gallon of gasoline .....	14.1	11.8	9.0	7.6	6.9	5.4	9.5
Total gallons of diesel oil consumed ..... '000	89	—	121	—	281	16,249	16,740
Miles per gallon of diesel oil .....	7.2	—	5.5	—	8.5	5.2	5.3
Total gallons of other fuel consumed ..... '000	—	—	—	—	—	115	115
Miles per gallon of other fuel .....	—	—	—	—	—	8.5	8.5
Estimated annual population .....	57,476	91,042	15,128	12,827	15,542	15,485	207,500

**TABLE 6 A. Intercity and Rural Operations Only of For Hire, Private Intercity and Farm Trucks by Gross Vehicle Weight Group**

	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
<b>Mileage:</b>							
Total mileage travelled ..... '000	145,946	265,173	55,434	67,463	125,547	215,632	875,195
Percentage of total mileage travelled empty	75.0	70.0	64.0	55.4	49.1	42.4	30.5
<b>Weight of goods carried:</b>							
Total tons of goods carried ..... '000	864	2,068	1,183	3,405	10,805	28,997	47,322
Average weight carried <sup>1</sup> ..... ton	0.3	0.6	2.1	3.6	5.3	12.7	6.0
Average distance each ton was carried .....	13.4	23.5	35.1	32.1	31.4	54.3	44.9
<b>Net ton miles:</b>							
Total net ton miles performed ..... '000	11,542	48,285	41,523	109,210	339,597	1,574,250	2,124,407
Average net ton miles per truck .....	400	1,300	6,200	17,600	38,900	162,000	21,900
<b>Capacity ton miles:</b>							
Total capacity ton miles <sup>2</sup> ..... '000	107,545	293,852	135,176	261,222	882,003	3,314,236	4,994,034
Average capacity ton miles per truck .....	3,800	7,800	20,000	42,100	101,100	341,100	51,400
Percentage of capacity utilized .....	10.7	16.4	30.7	41.8	38.5	47.5	42.5
<b>Gross ton miles:</b>							
Total gross ton miles <sup>3</sup> ..... '000	206,249	489,031	157,270	285,034	817,952	3,262,950	5,218,486
Average gross ton miles per truck .....	7,400	13,000	23,300	46,000	93,800	335,900	53,800
Estimated annual population .....	27,985	37,707	6,750	6,198	8,723	9,715	97,078

<sup>1</sup> Net ton miles divided by miles travelled with load.<sup>2</sup> Capacity ton miles are determined by multiplying the actual number of miles travelled by the estimated capacity or the weight of the heaviest load carried, whichever is larger.<sup>3</sup> Gross ton miles performed are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

Note: Table 6 A excludes the operations of vehicles in the urban category and the urban operations of for hire and private intercity vehicles (except mileage).

For further explanation of the difference between Table 6 and Table 6 A, see page 5, paragraph 6 of text.

**SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY QUEBEC REGISTERED TRUCKS JANUARY 1 – DECEMBER 31, 1964**

**TABLE 7. Tons of Goods Carried by Province of Origin and Destination**

Origin and destination	For hire			Private intercity			Total		
	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total	Into Quebec	Out of Quebec	Total
	'000 tons								
Newfoundland .....	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	2	2	4	—	—	—	2	2	4
Nova Scotia .....	—	—	—	—	—	—	—	—	—
New Brunswick .....	50	61	111	3	13	16	53	74	127
Ontario .....	872	881	1,753	147	366	513	1,019	1,247	2,266
Manitoba .....	39	38	77	—	—	—	39	38	77
Saskatchewan .....	1	8	9	—	—	—	1	8	9
Alberta .....	58	56	114	—	—	—	58	56	114
British Columbia .....	8	6	14	—	—	—	8	6	14
Yukon and Northwest Territories .....	—	—	—	—	—	—	—	—	—
United States .....	125	273	398	93	125	218	218	398	616
<b>Totals .....</b>	<b>1,155</b>	<b>1,325</b>	<b>2,480</b>	<b>243</b>	<b>504</b>	<b>747</b>	<b>1,398</b>	<b>1,829</b>	<b>3,227</b>

**TABLE 8. Selected Statistics by Commodity Group**

Commodity group	For hire						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals .....	13	496	4,756	9.6	371.9	243	5.1
Food, feed, beverages and tobacco .....	444	17,869	299,616	16.8	674.4	8,482	2.8
Crude materials, inedible .....	173	3,246	53,278	16.4	308.0	1,882	3.5
Fabricated materials, inedible .....	761	11,867	188,099	15.9	247.0	7,401	3.9
End products, inedible .....	298	11,848	115,042	9.7	386.6	7,964	6.9
General freight .....	791	27,367	417,577	15.3	527.9	13,685	3.3
<b>Totals .....</b>	<b>2,480</b>	<b>72,693</b>	<b>1,078,368</b>	<b>14.8</b>	<b>434.8</b>	<b>39,657</b>	<b>3.7</b>
	Private intercity						
	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton		
	'000 tons	'000	'000	tons	miles		
Live animals .....	—	—	—	—	—		—
Food, feed, beverages and tobacco .....	251	4,681	33,726	7.2	134.4		134.4
Crude materials, inedible .....	267	1,705	28,617	16.8	107.0		107.0
Fabricated materials, inedible .....	171	2,123	36,603	17.2	214.5		214.5
End products, inedible .....	48	2,833	17,657	6.2	365.9		365.9
General freight .....	10	266	1,246	4.7	125.8		125.8
<b>Totals .....</b>	<b>747</b>	<b>11,608</b>	<b>117,849</b>	<b>10.2</b>	<b>157.7</b>		

**APPENDIX**  
**Estimated Quebec Truck Population**

Type of operation	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
For hire .....	755	2,651	2,006	2,768	4,001	5,819	18,000
Private:							
Intercity .....	10,145	15,046	2,748	2,772	4,673	3,894	39,278
Urban .....	29,491	53,335	8,378	6,629	6,819	5,770	110,422
Farm .....	17,085	20,010	1,996	658	49	2	39,800
<b>Totals .....</b>	<b>57,476</b>	<b>91,042</b>	<b>15,128</b>	<b>12,827</b>	<b>15,542</b>	<b>15,485</b>	<b>207,500</b>



















**BINDING SECT. SEP 14 1981**

**Government  
Publication**



